

# Five-Year Capital Improvement Program

Fiscal Years 2022 to 2026









Flood Control District of Maricopa County, 2801 West Durango Street, Phoenix, Arizona 85009 (602) 506-1501

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# Sun City Drains - Olive Avenue Complete Fiscal Year 2022



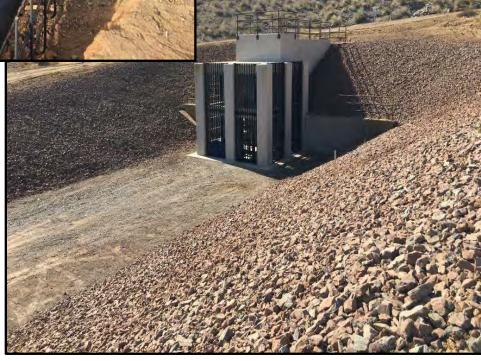
## Mandan Street Drainage Improvements Complete Fiscal Year 2021



# **Cave Buttes Dam Modifications Substantial Completion Fiscal Year 2021**



**Under Construction** 



Substantially Complete

#### **District Overview**

#### 1.1 Establishment

The State of Arizona formed the Flood Control District of Maricopa County (District) on August 3, 1959 in accordance with chapter 21 of title 48 of the Arizona Revised Statutes. The District is a political subdivision of the state, and has the powers, privileges and immunities generally given to incorporated cities and towns. The District is governed by a Board of Directors, and is funded primarily by a flood control tax levy assessed on real property within Maricopa County and by District cost-sharing agreements with project partners.

#### 1.2 Structure

The Maricopa County Board of Supervisors serves as the District's Board of Directors, with the advice of a Flood Control Advisory Board comprised of citizens appointed by the Board of Directors, as well as ex-officio representatives of the City of Phoenix and the Salt River Project.

The District is comprised of six primary functional areas operating under the oversight of its Director: Finance and Administration; Support Services; Operations and Maintenance; Engineering and Permitting; Policy, Planning and Coordination; and Planning and Project Management, which oversees the District's capital projects.

#### 1.3 Mission

The Flood Control District of Maricopa County reduces risk from flooding so that property damage and loss of life is minimized, economic development is supported in a safe and responsible manner, storm water is recognized as a resource for the long-term benefit of the community and environment.

### Capital Improvement Program

#### 2.1 Capital Improvement Program Overview

The District primarily accomplishes structural flood hazard mitigation through its five-year Capital Improvement Program – the revolving funding plan for accomplishing capital projects. Under this program, the District has participated in the construction of over 172 flood control structures. Guided by strategic goals and objectives, this plan drives design and construction of new infrastructure in concert with the District's planning activities, while it simultaneously addresses modification and replacement of existing infrastructure.

Capital projects typically account for approximately 65% to 70% of the District's annual expenditures.

The District manages its Capital Improvement Program as mandated by state statutes under the direction established by the following Board of Directors policy resolutions:

- FCD 2010R008, General Funding Policy
- FCD 2015R005, Capital Improvement Program Prioritization Procedure
- FCD 93-03, Landscaping and Aesthetics Policy
- FCD 2006R003 & FCD 2006R003A, Floodprone Properties Assistance Program

 FCD 2009R003, FCD 2009R003A, FCD 2009R003B & FCD 2009C003C, Small Project Assistance Program

Prior to their inclusion in the Capital Improvement Program, most capital projects are evaluated under the Capital Improvement Program Prioritization Procedure (regional projects), Small Project Assistance Program (local projects) or Floodprone Property Assistance Program (floodprone property buyout). The District's Board controls aggregate funding for each of these programs.

#### 2.2 Prioritization Procedure and Primary Capital Improvement Program

The District's Prioritization Procedure, initially implemented for the Fiscal Year 1995 budget cycle, serves as the primary annual mechanism for evaluating new proposed capital projects for possible funding.

The Prioritization Procedure promotes a balanced approach to the evaluation of proposed projects. The District attempts to identify and support flood control and regional drainage projects that not only provide long-term protection to individuals and property from flash floods and seasonal flooding, but that also promote community development, protecting natural habitats, water conservation, and maintaining watercourse flow paths. The procedure favors projects that involve cost-sharing partnerships, allowing the District to best leverage limited financial resources.

All newly proposed projects are evaluated according to predetermined and weighted criteria by a Project Evaluation Committee comprised of senior representatives of the District's Engineering and Permitting; Operations and Maintenance; Planning and Project Management; Policy, Planning and Coordination; and Real Estate divisions. The committee develops its recommendations using a system that allocates points to individual projects based on specific criteria. Project Evaluation Committee recommendations are forwarded sequentially to the Director/Chief Engineer and General Manager, the FCAB Budget Subcommittee and the FCAB for approval.

Evaluation criteria, last updated in February 2015, include:

- Agency Funding Commitment and Priority
- Flood Control / Drainage Master Plan Element
- Flooding Threat
- Level of Protection
- Area Protected
- Ancillary Benefits
- Level of Partner(s) Participation
- Operations and Maintenance Costs to the District

In addition to its use in evaluating new proposed projects, the Prioritization Procedure also governs maintenance and safety-related modifications to existing structures operated and maintained by the District. These modification projects may be recommended by the Director/Chief Engineer and General Manager independent of the committee-based evaluation process.

The expenditure of funding toward a project recommended under the Prioritization Procedure will not occur until the District's Board of Directors has adopted a formal resolution authorizing the project to move forward. Following resolution adoption, for

multilateral projects, District staff work with partnering municipalities to develop project IGAs that generally must be in place before project activity begins.

#### 2.3 Small Project Assistance Program

The Prioritization Procedure is intended to address projects that provide local solutions to local flood hazards. The District has recognized that, particularly in urban areas, localized flooding hazards exist where major structural solutions would be impractical. The Small Project Assistance Program provides a mechanism for the District to commit funding, on a limited basis, to advancing localized solutions in these situations. This program, initially authorized in May 2009 under Resolution FCD 2009R003, funded a first round of local drainage construction projects through Fiscal Year 2011. Resolution FCD 2009R003A extended the Program indefinitely. Resolution FCD 2009R003B authorized the program to be implemented in Unincorporated Maricopa County and Resolution FCD 2009C003C increased the District's share, includes design costs in District's contribution costs and extends the project term to two fiscal years.

The program terms restrict per-project District funding to \$500,000 or 75% of project design and construction costs, whichever is less for municipalities. Submitting municipalities are solely responsible for rights-of-way acquisition, utility relocations, construction management, and operations and maintenance, and are responsible for design and construction costs in excess of the District's contribution limit. For projects in Unincorporated Maricopa County, project funding is limited to \$500,000.

Projects submitted under this program are evaluated each October, under an entirely objective method, based mainly on the frequency and severity of property flooding mitigated by the proposed project, and based on project implementation readiness. Individual project resolutions are not required for projects recommended under this program. IGA terms for these projects are non-negotiable, and IGAs are required to be in place in advance of expenditure of reimbursable project costs.

#### 2.4 Floodprone Property Assistance Program

Similar to the Small Project Assistance Program, the Floodprone Property Assistance Program provides a tool to mitigate flood hazards where structural solutions are impractical.

Homeowners living in residences within delineated floodplains are eligible to apply for assistance under this program – applications are due each spring. Assistance generally takes the form of voluntary buyout, with the District purchasing the property at appraised market value. The District demolishes structures on purchased properties.

### **District Financing**

#### 3.1 Financial Philosophy

Most large government and private sector organizations that plan and construct large projects over extended periods of time borrow funds to finance these large projects, and then pay for them over many years. The District operates on a "pay-as-you-go" basis: the District's entire Capital Budget is funded from current revenues, and no borrowing takes place to finance capital projects. The District carries no debt load, and

County taxpayers do not pay for interest charges on District structures. Since much of the District's revenues are spent on the capital projects, taxpayers are investing in the future of the County, their property and their safety.

#### 3.2 Flood Control Tax Levy Overview

The majority of the District's revenue is derived from a flood control tax applied to secondary assessed real property valuations. The District's Board of Directors and the County's Board of Supervisors set the flood control tax rate and assessed property valuations, respectively. The flood control secondary assessed value, and as a result the District's revenue, is subject to economic influences. Maricopa County conducts annual market studies to determine individual property assessed values, and resulting tax levies generally lag these market studies by 18 to 30 months. So the Market Study conducted to determine property values in December of 2020 will impact the District's tax revenue in Fiscal year 2022. This simplifies the District's financial planning process, allowing accurate revenue projections for a two fiscal year period.

#### 3.3 Flood Control Tax Levy History and Trends

The flood control tax rate generally experienced a steady decline, while annual revenue slowly grew. In 2014 annual revenue decreased sharply as a result of a decrease in the tax rate.

Major flooding events in 2014 brought to light the ongoing need for flood control measures throughout Maricopa County. During the budget preparation process District staff petitioned the Board of Directors for a tax rate increase. The District's Board of Directors granted a two cent increase for Fiscal year 2016 and another two cents in 2017. The result of these two increases was approximately twelve million dollars in additional funding. The additional funding will allow the District to continue the rehabilitation of several dams and expedite various other projects currently waiting on funding.

**District Tax Rates by Fiscal Year** 

| Fiscal Year | Tax Rate | Tax Revenue   |
|-------------|----------|---------------|
| 2022        | 0.1792   | \$75,415,663* |
| 2021        | 0.1792   | \$74,336,934* |
| 2020        | 0.1792   | \$70,887,943  |
| 2019        | 0.1792   | \$65,713,770  |
| 2018        | 0.1792   | \$61,870,280  |
| 2017        | 0.1792   | \$58,521,810  |
| 2016        | 0.1592   | \$48,988,130  |
| 2015        | 0.1392   | \$43,660,332  |
| 2014        | 0.1392   | \$39,842,985  |
| 2013        | 0.1780   | \$54,584,578  |
| 2012        | 0.1780   | \$62,401,172  |
| 2011        | 0.1489   | \$67,074,351  |
| 2010        | 0.1367   | \$72,659,843  |
| 2009        | 0.1367   | \$72,672,487  |
| 2008        | 0.1533   | \$68,973,117  |
| 2007        | 0.2047   | \$64,957,962  |
| 2006        | 0.2119   | \$62,733,411  |
| 2005        | 0.2119   | \$55,544,623  |
| 2004        | 0.2119   | \$50,050,367  |
| 2003        | 0.2119   | \$44,302,534  |
| 2002        | 0.2319   | \$44,622,753  |
|             |          |               |

<sup>\*</sup>FY 2021 value does not reflect projected uncollected taxes; FY 2022 values are estimated/anticipated.

#### 3.4 Project Cost Shares

For most of the 1970s and 1980s, the District was heavily involved in cost-sharing partnerships with the federal and state governments, initiating and participating in flood control projects that were planned and funded in large part by higher levels of government. In the 1990s, the District replaced larger government agencies as the primary source of technical expertise and financial resources for flood control in Maricopa County. To continue to address a wealth of regional flood control problems with its limited resource pool, the District has increasingly leveraged the financing of local project partners.

The District aims to fund no more than one-half of a project's design and construction costs and obtain the remaining funding from benefitting municipalities and other public and private agencies. Where possible, the District additionally defers maintenance responsibilities to partner agencies.

#### **Use of this Document**

Project budget tables are presented for the District's five-year Capital Improvement Program, Fiscal Years 2022 through 2026. Fiscal Year 2022 figures represent the District's Capital Budget as adopted by the District's Board of Directors. Figures for Fiscal Years 2023 through 2026 are forecasted projections and may experience significant change, particularly for projects in the early stages of development.

Tax revenue trends may have an additional, substantial impact on project sequencing. The five-year Capital Improvement Program is a function of District revenue projections. The five-year program reflected in this booklet assumes that District revenue will support a \$83 million Capital Budget for Fiscal Year 2022, a \$94 million budget for Fiscal Year 2023, a \$110 million budget for Fiscal Year 2024, an \$89 million budget Fiscal Year 2025 and a \$79 million budget for Fiscal Year 2026. Additional revenues generated by excess land sales, intergovernmental agreements or unforeseen property value increases may allow for additional expenditures; revenue lags tied to declines in property values or a lack of contributing project partners may lead to a corresponding decrease in the District's Capital Budget for a given fiscal year.

Listed project totals are totals for this five-year period; they do not represent total historical or anticipated project costs.

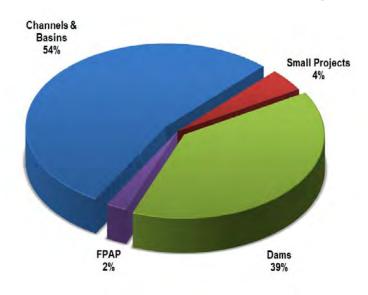
Included with each project description is the name and contact information for the responsible project manager. Project managers may also be contacted through the general District switchboard at 602-506-1501.

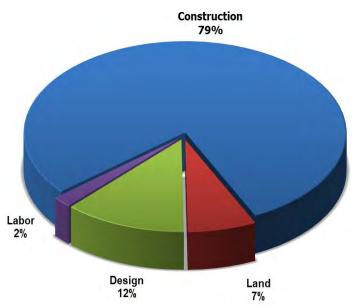
This report is available at: <a href="www.Maricopa.gov/CIP2023">www.Maricopa.gov/CIP2023</a> and project status updates are published at <a href="https://apps.fcd.maricopa.gov/fcdprojects/">https://apps.fcd.maricopa.gov/fcdprojects/</a>.

## **Fiscal Year 2022-2026 Capital Improvement Program Budget Summary**

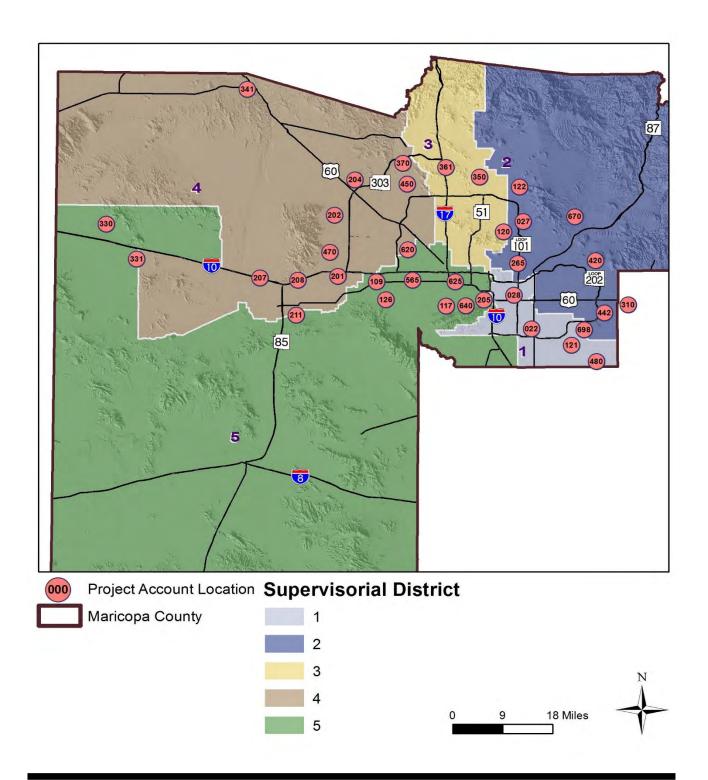
| Page | Bin  | Project   | FY22         | FY23         | FY24          | FY25         | FY26         | 5-Year        |
|------|------|---|--------------|--------------|---------------|--------------|--------------|---------------|
| 10   | FCIP | Primary Capital Improvement Program and Reserve | \$77,316,000 | \$89,798,000 | \$107,916,000 | \$86,534,000 | \$76,285,000 | \$437,849,000 |
| 96   | F699 | Small Projects Assistance Program               | \$3,655,000  | \$3,996,496  | \$3,020,000   | \$3,020,000  | \$3,020,000  | \$16,711,496  |
| 98   | F700 | Floodprone Properties Acquisition               | \$2,000,000  | \$0          | \$0           | \$0          | \$0          | \$2,000,000   |
|      |      | Capital Improvement Program Total               | \$82,971,000 | \$93,794,496 | \$110,936,000 | \$89,554,000 | \$79,305,000 | \$456,560,496 |

## Fiscal Year 2022 Capital Budget **Funding Distribution Summary**





## Fiscal Year 2022-2026 Capital Improvement Program Project Account Location Guide



## Fiscal Year 2022-2026 Capital Improvement Program

#### **Primary Capital Improvement Program**

| Page | Map | PCN       | Project   | FY22         | FY23         | FY24          | FY25         | FY26         | 5-Year        |
|------|-----|-----------|---|--------------|--------------|---------------|--------------|--------------|---------------|
| 10   | 022 | 022.01.32 | Central Chandler Storm Drain Improvements                           | \$107,000    | \$1,442,000  | \$1,521,000   | \$0          | \$0          | \$3,070,000   |
| 12   | 117 | 117.01.31 | Hidden Valley Basins & Storm Drain                                  | \$310,000    | \$950,000    | \$2,680,000   | \$4,100,000  | \$0          | \$8,040,000   |
| 14   | 117 | 117.02.32 | 19th Avenue and Dobbins Road Drainage Basin and Storm Drain         | \$1,085,000  | \$3,115,000  | \$6,150,000   | \$0          | \$0          | \$10,350,000  |
| 16   | 117 | 117.04.31 | 51st Avenue and Dobbins Road Drainage Improvement Project           | \$1,875,000  | \$660,000    | \$7,720,000   | \$2,185,000  | \$0          | \$12,440,000  |
| 18   | 117 | 117.05.31 | 27th Ave. & Olney Avenue Storm Drain                                | \$2,525,000  | \$2,940,000  | \$0           | \$0          | \$0          | \$5,465,000   |
| 20   | 118 |           | Arizona Canal Diversion Channel (ACDC) Fence Repair Project         | \$473,000    | \$0          | \$0           | \$0          | \$0          | \$473,000     |
| 22   | 120 | 120.01.30 | Berneil Channel Modifications                                       | \$0          | \$0          | \$0           | \$5,940,000  | \$0          | \$6,060,000   |
| 24   | 121 | 121.01.31 | EMF Low Flow-Guadalupe to Ray                                       | \$4,345,000  | \$0          | \$0           | \$0          | \$0          | \$4,345,000   |
| 26   | 121 |           | EMF Low Flow - Germann to Chandler Heights                          | \$190,000    | \$0          | \$0           | \$0          | \$0          | \$190,000     |
| 28   | 121 | 121.03.30 | EMF Low Flow - Chandler Heights to Hunt Highway                     | \$0          | \$2,670,000  | \$2,000,000   | \$0          | \$0          | \$4,670,000   |
| 30   | 121 |           | Rittenhouse Basin   | \$0          | \$0          | \$0           | \$0          | \$2,285,000  | \$2,285,000   |
| 32   | 122 | 122.01.30 | Rawhide Wash Drainage Improvements                                  | \$4,314,000  | \$6,485,000  | \$1,000,000   | \$0          | \$0          | \$11,799,000  |
| 34   | 122 | 122.01.31 | Reata Wash Drainage Improvements                                    | \$10,000     | \$1,030,000  | \$7,650,000   | \$7,650,000  | \$0          | \$16,340,000  |
| 36   | 122 | 122.02.31 | Paradise Ridge Channel  | \$1,425,000  | \$450,000    | \$14,180,000  | \$14,220,000 | \$0          | \$30,275,000  |
| 38   | 201 |           | White Tanks FRS No.4 Rehabilitation                                 | \$47,000     | \$0          | \$0           | \$0          | \$0          | \$47,000      |
| 40   | 202 | 202.02.31 | McMicken Dam Rehabilitation Ph.1 & 2                                | \$20,288,000 | \$20,100,000 | \$27,120,000  | \$10,650,000 | \$7,000,000  | \$85,158,000  |
| 42   | 202 | 202.03.31 | McMicken Dam Rehabilitation Ph. 3                                   | \$990,000    | \$630,000    | \$755,000     | \$730,000    | \$15,710,000 | \$18,815,000  |
| 44   | 204 | 204.01.30 | McMicken Dam Outfall Channel  | \$8,706,000  | \$5,000,000  | \$0           | \$0          | \$0          | \$13,706,000  |
| 46   | 205 | 205.01.30 | Guadalupe FRS Rehabilitation  | \$0          | \$1,475,000  | \$7,100,000   | \$7,165,000  | \$0          | \$15,740,000  |
| 48   | 207 | 207.01.31 | Buckeye FRS No.1 Rehabilitation                                     | \$8,814,000  | \$7,181,000  | \$0           | \$0          | \$0          | \$15,995,000  |
| 50   | 211 | 211.03.31 | Downtown Buckeye Regional Basin & Storm Drain                       | \$45,000     | \$1,810,000  | \$0           | \$0          | \$0          | \$1,855,000   |
| 52   | 265 |           | Granite Reef Wash Drainage Improvements                             | \$2,632,000  | \$3,785,000  | \$3,485,000   | \$0          | \$0          | \$9,902,000   |
| 54   | 310 | 310.01.30 | Powerline, Vineyard, Rittenhouse FRS Rehabilitation/Replacement     | \$1,686,000  | \$0          | \$20,370,000  | \$23,989,000 | \$15,300,000 | \$61,345,000  |
| 56   | 310 | 310.01.32 | Powerline Channel and FRS Decommissioning                           | \$277,000    | \$0          | \$0           | \$0          | \$0          | \$277,000     |
| 58   | 331 | 331.01.30 | Saddleback FRS Modifications  | \$0          | \$0          | \$0           | \$0          | \$2,800,000  | \$2,800,000   |
| 60   | 337 | 337.01.30 | Sun City Drains   | \$427,000    | \$0          | \$0           | \$0          | \$0          | \$427,000     |
| 62   | 337 | 337.01.31 | Sun City Drains Imp Grand Ave, Del Webb to Agua Fria (3)            | \$2,858,000  | \$0          | \$0           | \$0          | \$0          | \$2,858,000   |
| 64   | 337 |           | Sun City Drains Imp Grand Ave, 103rd Ave to New River (7 & 8)       | \$615,000    | \$8,080,000  | \$0           | \$0          | \$0          | \$8,695,000   |
| 66   | 338 | 338.01.30 | Sun City West Drains (5 & 12)                                       | \$790,000    | \$10,970,000 | \$455,000     | \$0          | \$0          | \$12,215,000  |
| 68   | 341 | 341.01.30 | Sunnycove FRS Seepage Collection System Improvements                | \$25,000     | \$0          | \$0           | \$0          | \$0          | \$25,000      |
| 70   | 350 | 350.01.30 | Cave Buttes Dam Modifications                                       | \$835,000    | \$0          | \$0           | \$0          | \$0          | \$835,000     |
| 72   | 370 | 370.01.30 | New River Dam Outlet Improvements                                   | \$150,000    | \$0          | \$0           | \$0          | \$0          | \$150,000     |
| 74   | 420 | 420.04.31 | Oak Street Detention Basin and Storm Drain                          | \$7,242,000  | \$1,010,000  | \$0           | \$0          | \$0          | \$8,252,000   |
| 76   | 420 | 420.05.31 | Ellsworth Road & McKellips Road Drainage System                     | \$0          | \$0          | \$0           | \$0          | \$11,060,000 | \$11,060,000  |
| 78   | 442 | 442.02.30 | Pecos Road Drainage Improvements                                    | \$0          | \$0          | \$675,000     | \$4,265,000  | \$7,150,000  | \$12,090,000  |
| 80   | 450 | 450.01.30 | Pinnacle Peak & 67th Ave. Drainage Improvements                     | \$1,415,000  | \$3,010,000  | \$3,010,000   | \$0          | \$0          | \$7,435,000   |
| 82   | 480 | 480.01.33 | Detention Basin at the Town of Queen Creek East Park Sports Complex | \$1,650,000  | \$935,000    | \$0           | \$0          | \$0          | \$2,585,000   |
| 84   | 565 | 565.04.32 | Durango Regional Conveyance Channel (107th Ave. to Agua Fria)       | \$201,000    | \$0          | \$0           | \$0          | \$0          | \$201,000     |
| 86   | 620 | 620.03.34 | Bethany Home Road Storm Drain (43rd to 51st Avenue)                 | \$325,000    | \$4,070,000  | \$0           | \$0          | \$0          | \$4,395,000   |
| 88   | 620 | 620.XX.X1 | Bethany Home Road Storm Drain (59th to 51st Avenue)                 | \$0          | \$0          | \$45,000      | \$3,640,000  | \$0          | \$3,685,000   |
| 90   | 625 |           | Palm Lane and 30th Street   | \$540,000    | \$0          | \$0           | \$0          | \$0          | \$540,000     |
| 92   | 630 | 630.01.31 | Mandan Street Drainage Improvements                                 | \$99,000     | \$0          | \$0           | \$0          | \$0          | \$99,000      |
| 94   | 640 | 640.XX.X1 | Circke K Park Detention Basin                                       | \$0          | \$0          | \$0           | \$0          | \$12,980,000 | \$12,980,000  |
| NA   | NA  | FCPR      | Flood Control Project Reserve                                       | \$0          | \$2,000,000  | \$2,000,000   | \$2,000,000  | \$2,000,000  | \$8,000,000   |
|      |     |           | Subtotal  | \$77,316,000 | \$89,798,000 | \$107,916,000 | \$86,534,000 | \$76,285,000 | \$437,969,000 |

#### Small Projects Assistance Program & Floodprone Properties Acquisition

| Page | Account | Program                           | FY22        | FY23        | FY24        | FY25        | FY26        | 5-Year       |
|------|---------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|
| 96   | F699    | Small Projects Assistance Program | \$3,655,000 | \$3,996,496 | \$3,020,000 | \$3,020,000 | \$3,020,000 | \$16,711,496 |
| 98   | F700    | Floodprone Properties Acquisition | \$2,000,000 | \$0         | \$0         | \$0         | \$0         | \$2,000,000  |
|      |         | Subtotal                          | \$5,655,000 | \$3 996 496 | \$3,020,000 | \$3,020,000 | \$3,020,000 | \$18 711 496 |

Total \$82,971,000 \$93,794,496 \$110,936,000 \$89,554,000 \$79,305,000 \$456,680,496

## Central Chandler Storm Drain Improvements

Dan Frank, P.E., Project Manager 602-506-4073 Dan.Frank@maricopa.gov

District: 1

Jurisdiction: Chandler

Origin: FY 2009 Prioritization Procedure

Resolution: FCD 2008R004 Agreement: FCD 2021A001

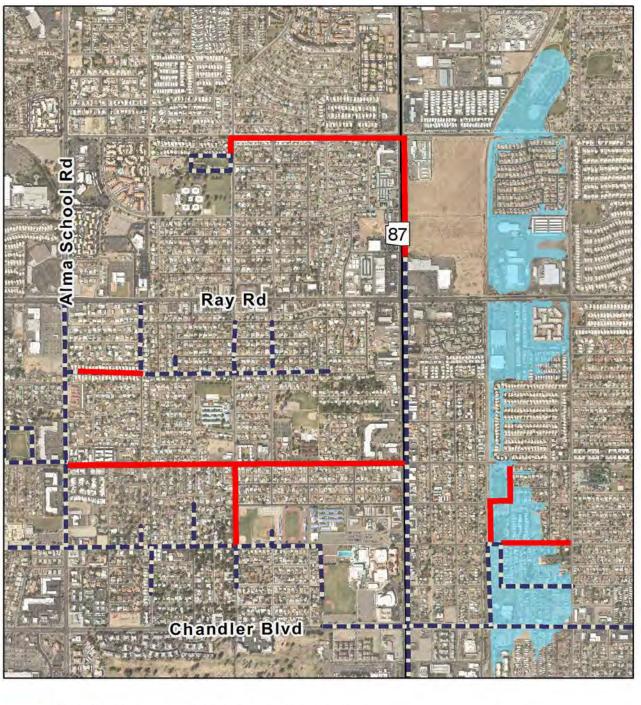
The City of Chandler's downtown area was developed in the 1940s to 1960s, prior to the adoption of city on-site retention policies, and has been subject to historic flooding problems. The area is largely flat and primarily drains through the city's Arizona Avenue and Alma School storm drain systems; however, the drainage system also makes use of the Salt River Project "Chandler Drain" irrigation tailwater system.

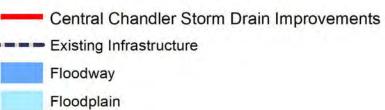
Recommended by the city's Storm Water Master Plan Update, the Central Chandler Storm Drain Improvements Project removes all local drainage connections to the Chandler Drain, reducing the chances of pollutants from this irrigation system being introduced into the city's storm drain system, establishes a distinct city storm drain system and provides a 10-year level of protection to the two-square-mile affected area.

The District anticipates entering a cost-share agreement for design and construction of the project with the City; however, implementation of the project is dependent upon availability of funding.

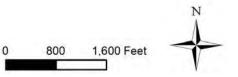
| Fiscal Year    | Budget      |  |  |
|----------------|-------------|--|--|
| FY 2022        | \$107,000   |  |  |
| FY 2023        | \$1,442,000 |  |  |
| FY 2024        | \$1,521,000 |  |  |
| FY 2025        | \$0         |  |  |
| FY 2026        | \$0         |  |  |
| 5-Year Program | \$3,070,000 |  |  |

PCN: 022.01.32





Aerial Photography - Fall 2013



## **Hidden Valley Basins & Storm Drain**

Nazar Nabaty, P.E., Project Manager

602-506-4592

Nazar.Nabaty@maricopa.gov

District: 5

Jurisdiction: Phoenix

Origin: FY 2015 Prioritization Procedure

Resolution: FCD 2018R006 Agreement: FCD 2020A021

The District's South Phoenix Drainage Improvement Project Feasibility Study evaluated the watershed generally bounded by 43rd Avenue to the west, Central Avenue to the east, South Mountain Avenue to the south and the Salt River to the north. The study identified and compared alternative solutions to mitigate flooding hazards in the watershed and selected a recommended plan. Plan elements included several detention basins and a storm drain system to provide an outfall to the Salt River.

The project consists of constructing storm drains and two basins for both the east wash (Highline Basin) and the northeast wash (Carver Basin). The basins and storm drain system will capture the 10-year return frequency. Project is currently under Right-of-Way acquisition process for the basins.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$310,000   |
| FY 2023        | \$950,000   |
| FY 2024        | \$2,680,000 |
| FY 2025        | \$4,100,000 |
| FY 2026        | \$0         |
| 5-Year Program | \$8,040,000 |

PCN: 117.01.31

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# 19<sup>th</sup> Avenue and Dobbins Road Drainage PCN: 117.02.32 Basin and Storm Drain

Nazar Nabaty, P.E., Project Manager

602-506-4592

Nazar.Nabaty@maricopa.gov

District: 5

Jurisdiction: Phoenix

Origin: FY 2015 Prioritization Procedure

Resolution: FCD 2018R006 Agreement: FCD 2019A010

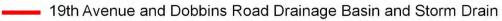
The project recommended structural solutions to mitigate flooding hazards in the area northwest of 19th Avenue and Dobbins Road, west along Dobbins Road and northwest of 27th Avenue and Dobbins Road.

The anticipated features include construction of a new detention basin (Dobbins Basin) with footprint approximately 9.0 acres at the northwest corner of Dobbins Road and 14th Avenue, a new four barrel 54-inch diameter culvert, a new storm drain pipe with different sizes, inlets, laterals, catch basins, outfall and other related items. The outlet for this system is the existing 27th Avenue and South Mountain Road basin. Currently working on a Design Concept Report (DCR) for project.

| Budget       |
|--------------|
| \$1,085,000  |
| \$3,115,000  |
| \$6,150,000  |
| \$0          |
| \$0          |
| \$10,350,000 |
|              |

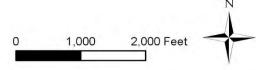
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- ---- Existing Infrastructure
- Floodway
- Floodplain

Aerial Photography - Fall 2018



# 51<sup>st</sup> Avenue and Dobbins Road Drainage Improvement Project

Nazar Nabaty, P.E., Project Manager

602-506-4592

Nazar.Nabaty@maricopa.gov

District: 5

Jurisdiction: Phoenix

Origin: FY 2019 Prioritization Procedure

Resolution: FCD 2018R006 Agreement: FCD 2021A006

The District completed the Laveen Area Drainage Master/Plan Update to develop and evaluate solutions to mitigate flooding hazards in the Laveen Area. The study recommended a regional storm drain and basins to intercept storm water flows.

The project consists of constructing a regional basin (Sunrise Basin) at the southeast corner of 51st Avenue and Sunrise Drive. New 36-inch diameter storm drain pipe that will drain runoff from the new regional basin at 51st Ave/Sunrise to the future offsite drainage system to be constructed with the SR202L Freeway. New 36-inch storm drain system with 4 catch basins and laterals in 47th Avenue from Olney Avenue draining north to Dobbins Road, then a 48-inch storm drain west in Dobbins to outfall at the existing 72" City of Phoenix storm drain in 51st Avenue. Currently coordinating with new owner/builder on operation and maintenance of temporary basin, and acquiring permanent ROW for Sunrise basin.

| Fiscal Year    | Budget       |  |  |  |
|----------------|--------------|--|--|--|
| FY 2022        | \$1,875,000  |  |  |  |
| FY 2023        | \$660,000    |  |  |  |
| FY 2024        | \$7,720,000  |  |  |  |
| FY 2025        | \$2,185,000  |  |  |  |
| FY 2026        | \$0          |  |  |  |
| 5-Year Program | \$12,440,000 |  |  |  |

PCN: 117.04.31





## 27th Ave. & Olney Avenue Storm Drain

Nazar Nabaty, P.E., Project Manager

602-506-4592

Nazar.Nabaty@maricopa.gov

District: 5

Jurisdiction: Phoenix

Origin: FY 2015 Prioritization Procedure

Resolution: FCD 2018R006

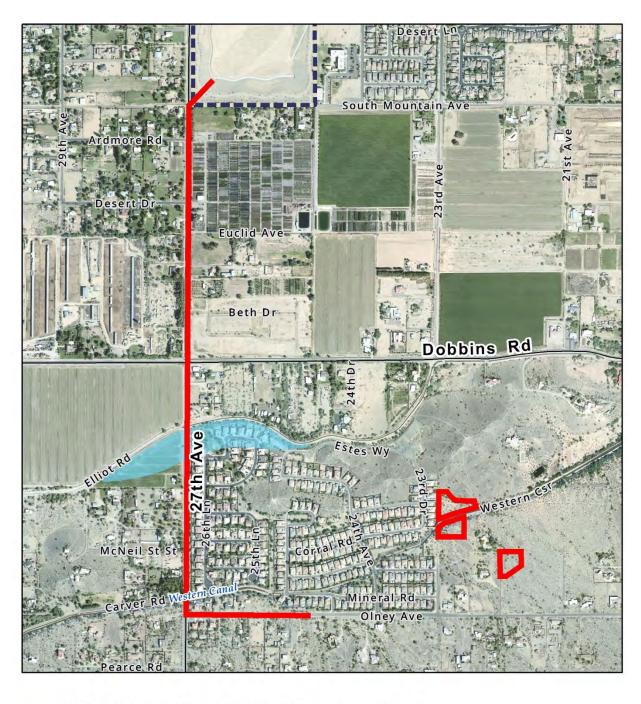
Agreement: FCD 2018A011, FCD 2018A011A, FCD 2018A011B

The District completed the Laveen Area Drainage Master/Plan Update to develop and evaluate solutions to mitigate flooding hazards in the Laveen Area. The study recommended a regional storm drain and basins to intercept storm water flows.

This project is one of the recommended plans. The project includes design and construction of a storm drain system along Olney Avenue from west of 23<sup>rd</sup> Avenue to 27<sup>th</sup> Avenue and north along 27<sup>th</sup> Avenue to South Mountain Avenue. The project will outfall to the existing Basin located on the northeast corner of 27<sup>th</sup> Avenue and South Mountain Avenue. The project also includes design and construction of three HMA retention basins on 23<sup>rd</sup> Avenue north of Olney. The project will convey the 10-year frequency storm flows. Design and construction of retention basins is complete. Project currently under design for storm drain system.

| Budget      |
|-------------|
| \$2,525,000 |
| \$2,940,000 |
| \$0         |
| \$0         |
| \$0         |
| \$5,465,000 |
|             |

PCN: 117.05.31





### **Arizona Canal Diversion Channel (ACDC)** PCN: 118.02.31 Fence Repair Project

Patrick Schafer, P.E., Project Manager

602-506-2206

Patrick.Schafer@maricopa.gov

District: 3 & 4 Jurisdiction: **FCDMC** 

Origin: FY 2019 Prioritization Procedure

Resolution: FCD 2018R012

Agreement: None

The concrete pilaster base and steel posts that support the fencing along much of the Arizona Canal Diversion Channel (ACDC) have deteriorated presenting safety issues in various locations. District staff has documented areas of concern and is preparing a phased repair/replacement plan. District O&M staff have been stabilizing the most critical fence segments in the interim until this permanent repair/replacement project gets underway. Project currently under construction, scheduled for completion in FY22.

| Fiscal Year    | Budget    |
|----------------|-----------|
| FY 2022        | \$473,000 |
| FY 2023        | \$0       |
| FY 2024        | \$0       |
| FY 2025        | \$0       |
| FY 2026        | \$0       |
| 5-Year Program | \$473,000 |





### **Berneil Channel Modifications**

Tim Murphy, P.E., Project Manager

602-506-4605

Tim.Murphy@maricopa.gov

District: 2

Jurisdiction: Town of Paradise Valley

Origin: FY 2010 Prioritization Procedure

Resolution: Pending Agreement: Pending

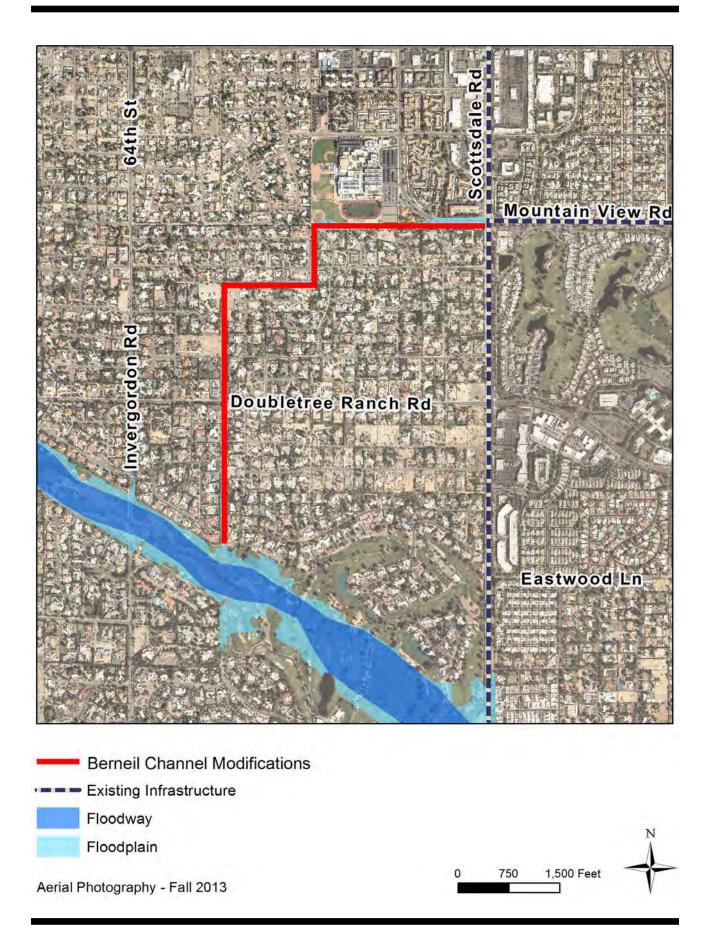
The Berneil Channel is operated and maintained by the Town of Paradise Valley and generally conveys storm water between Scottsdale Road at Mountain View Road southwest to the Indian Bend Wash at approximately the 66th Street alignment. The channel is undersized for the 100-year event; in sections, it is unable to contain events of a 2-year return frequency.

The town submitted a project for modification of the Berneil Channel to the District's prioritization procedure, and the project was recommended. Ideally, a modification project would increase channel capacity to convey the 100-year event, but funding constraints may limit capacity improvements to address 10-year events.

The Town of Paradise Valley has completed a preliminary project study. Advancement of the project to final design and construction is dependent upon the availability of funding and the successful negotiation of an Intergovernmental Agreement between District and the town.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$0         |
| FY 2023        | \$0         |
| FY 2024        | \$5,940,000 |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$5,940,000 |

PCN: 120.01.30



## **EMF Low Flow – Guadalupe to Ray**

Dan Frank, P.E., Project Manager

602-506-4073

Dan Frank@maricopa.gov

District: 1

Jurisdiction: Gilbert

Origin: FY 2011 Prioritization Procedure

Resolution: Pending Agreement: None

The EMF is a principal flood control feature for the east valley, intercepting floodwater flow impacting the Buckhorn-Mesa, Apache Junction-Gilbert and Williams-Chandler watersheds. The EMF is operated and maintained by the District, with the exception of segments that run through privately owned golf courses.

Due to the topography of the area, the EMF has a particularly shallow slope. Combined with the EMF's earthen bottom, this causes nuisance ponding along much of the structure. In addition to causing mosquito control issues, this creates maintenance difficulties, as maintenance equipment is unable to function in the saturated channel bottom. The District is constructing a concrete low flow channel along the EMF from Guadalupe to Ray. Design is complete. Construction to start FY22.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$4,345,000 |
| FY 2023        | \$0         |
| FY 2024        | \$0         |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$4,345,000 |

PCN: 121.01.31





# **EMF Low Flow – Germann to Chandler Heights**

Dan Frank, P.E., Project Manager 602-506-4073 Dan Frank@maricopa.gov

District: 1

Jurisdiction: Gilbert

Origin: FY 2011 Prioritization Procedure

Resolution: Pending Agreement: None

The EMF is a principal flood control feature for the east valley, intercepting floodwater flow impacting the Buckhorn-Mesa, Apache Junction-Gilbert and Williams-Chandler watersheds. The EMF is operated and maintained by the District, with the exception of segments that run through privately owned golf courses.

Due to the topography of the area, the EMF has a particularly shallow slope. Combined with the EMF's earthen bottom, this causes nuisance ponding along much of the structure. In addition to causing mosquito control issues, this creates maintenance difficulties, as maintenance equipment is unable to function in the saturated channel bottom. The District is constructing a concrete low flow channel along the EMF from Germann to Chandler Heights. Design to start FY22.

| Fiscal Year    | Budget    |
|----------------|-----------|
| FY 2022        | \$190,000 |
| FY 2023        | \$0       |
| FY 2024        | \$0       |
| FY 2025        | \$0       |
| FY 2026        | \$0       |
| 5-Year Program | \$190,000 |

PCN: 121.02.32



# EMF Low Flow – Chandler Heights to Hunt Highway

Dan Frank, P.E., Project Manager 602-506-4073 Dan Frank@maricopa.gov

District: 1

Jurisdiction: Gilbert

Origin: FY 2011 Prioritization Procedure

Resolution: Pending Agreement: None

The EMF is a principal flood control feature for the east valley, intercepting floodwater flow impacting the Buckhorn-Mesa, Apache Junction-Gilbert and Williams-Chandler watersheds. The EMF is operated and maintained by the District, with the exception of segments that run through privately owned golf courses.

Due to the topography of the area, the EMF has a particularly shallow slope. Combined with the EMF's earthen bottom, this causes nuisance ponding along much of the structure. In addition to causing mosquito control issues, this creates maintenance difficulties, as maintenance equipment is unable to function in the saturated channel bottom. The District is constructing a concrete low flow channel the EMF from Chandler Heights to Hunt Highway. Design to start FY22.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$0         |
| FY 2023        | \$2,670,000 |
| FY 2024        | \$2,000,000 |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$4,670,000 |

PCN: 121.03.30







#### Rittenhouse Basin

Don Rerick, P.E., Project Manager

602-506-4878

Don.Rerick@maricopa.gov

District: 1

Jurisdiction: Gilbert

FY 2001 Prioritization Procedure Origin:

Resolution: FCD 2001R006 Agreement: FCD 2004A007

The U.S. Soil Conservation Service (now Natural Resources Conservation Service) completed the East Maricopa Floodway (EMF) in 1989 in partnership with the District and others. This 27-mile long earthen channel runs parallel to the Roosevelt Water Conservation District canal from north of Brown Road to Hunt Highway, and continues in a southwesterly direction through the Gila River Indian Community to an outlet at the Gila River. The EMF is a principal flood control feature for the east valley, intercepting floodwater flow impacting the Buckhorn-Mesa, Apache Junction-Gilbert and Williams-Chandler watersheds. The EMF is operated and maintained by the District, with the exception of segments that run through privately owned golf courses.

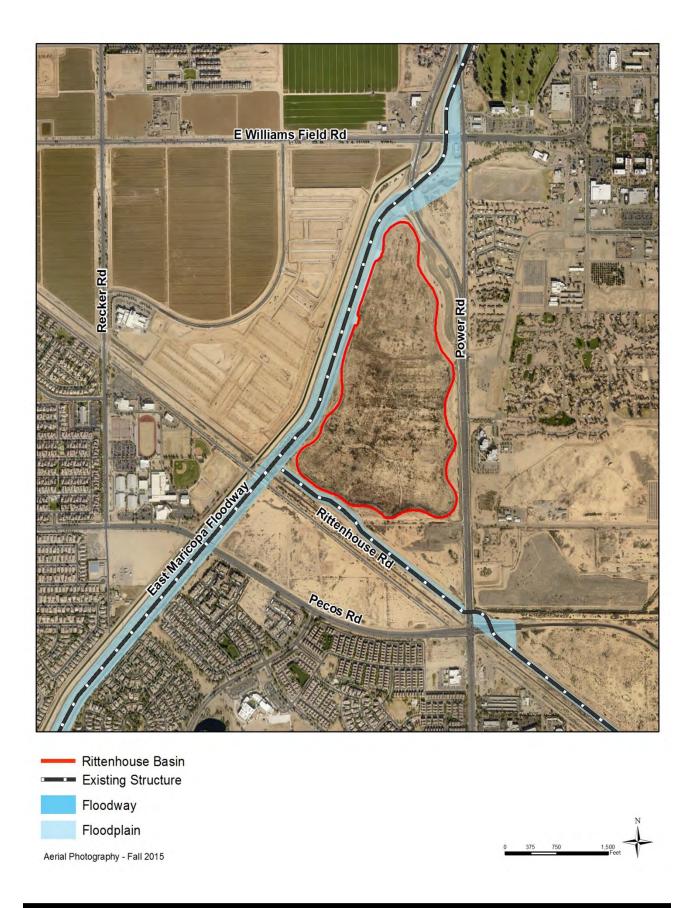
The District initiated a study to examine EMF capacity following development of the adjacent area and identified drainage and flooding issues associated with the 15,000 cubic-feet-persecond (cfs) 100-year flow exceeding the EMF's 8,500 cfs capacity. The study proposed two large off-line detention basins – the Rittenhouse and Chandler Heights basins – to mitigate EMF flows.

In April 2009, the Town of Gilbert purchased a recreational use easement on the 160-acre basin site, generating approximately \$11 million in District revenue and partially offsetting the project's cost.

Excavation of the Rittenhouse Basin is complete. The town has assumed operation and maintenance obligations. The town park improvements are underway, and the District is scheduled to provide aesthetic enhancement costs in the next four (4) Fiscal Years.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$0         |
| FY 2023        | \$0         |
| FY 2024        | \$0         |
| FY 2025        | \$0         |
| FY 2026        | \$2,285,000 |
| 5-Year Program | \$2,285,000 |

PCN: 121.03.32



#### **Rawhide Wash Drainage Improvements**

Nazar Nabaty, P.E., Project Manager

602-506-4592

Nazar.Nabaty@maricopa.gov

District: 1 & 2

Jurisdiction: Phoenix and Scottsdale

Origin: FY 2019 Prioritization Procedure

Resolution: FCD 2018R005

Agreement: FCD 2018A013, FCD 2019A009

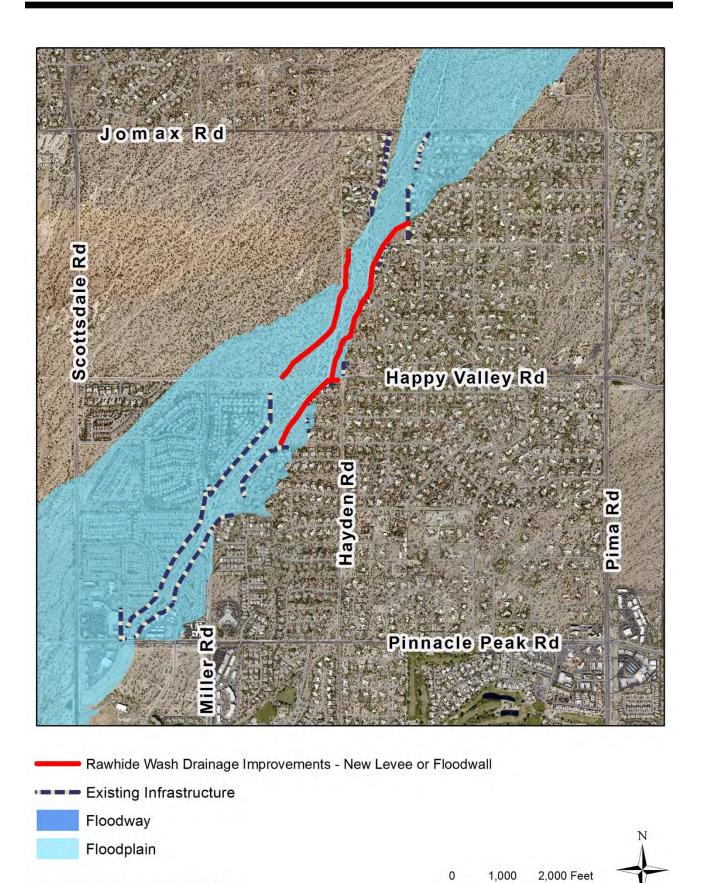
The Rawhide Wash Drainage Improvements project is defined as the conveyance alternative presented in the Pinnacle Peak West (PPW) Area Drainage Master Study (ADMS). The northern limit of the project is approximately the Rawhide Wash alluvial fan apex located north of Happy Valley Road and the southern limit is the bridge crossing at Pinnacle Peak Road. The project improvements will include construction of channel, new floodwalls and levees, augmentation of existing floodwalls and levees, and containment facilities for the Los Portones Drive crossing.

It also includes a levee on the south side of the Troon North tributary west of Pima Road. The objectives of the project are to provide 100-year flood protection to an estimated 190 structures in the Rawhide Wash floodplain believed to be at risk of structural flooding in a 100-year flood, replace the expansive Rawhide Wash FEMA regulatory floodplain (Flood Zone AO), currently consisting of 16 square miles (data as of 2015), with a much smaller riverine floodplain (Flood Zone AE) within the Rawhide Wash channel itself, thus reducing flood insurance costs for approximately 2,700 property owners (data as of 2015, including structures east of Scottsdale Road, which might be eligible for removal by LOMR without the project), and greatly reduce drainage infrastructure costs for future development within the existing floodplain.

It should be noted that the City of Scottsdale and the developer of the Silverstone project have already constructed drainage infrastructure from Pinnacle Peak Road to Scottsdale Road that accommodates delivery of full apex flows through the main Rawhide Wash corridor. Project currently under design and ROW acquisition.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$4,314,000  |
| FY 2023        | \$6,485,000  |
| FY 2024        | \$1,000,000  |
| FY 2025        | \$0          |
| FY 2026        | \$0          |
| 5-Year Program | \$11,799,000 |

PCN: 122.01.30



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Aerial Photography - Fall 2016

### **Reata Wash Drainage Improvements**

#### Theresa Pinto, Project Manager

602-506-8127

Theresa.Pinto@maricopa.gov

District: 2

Jurisdiction: Scottsdale

Origin: FY 2019 Prioritization procedure

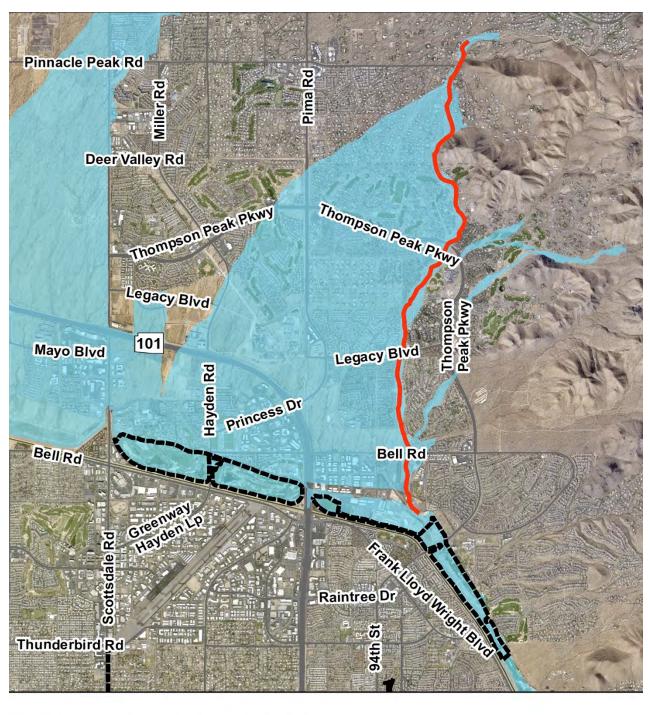
Resolution: Pending Agreement: Pending

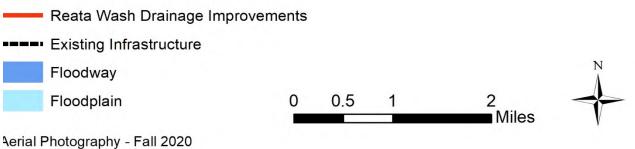
The Reata Wash Drainage Improvements project is intended to provide FEMA compliant flood controls to mitigate flood hazards within the Reata Wash alluvial fan. The Reata Wash floodplain encompasses a large area in north Scottsdale between approximately Pinnacle Peak Road and the Central Arizona Project Canal.

Advancement of the project to final design and construction is largely dependent upon the availability of funding and the successful negotiation of an intergovernmental agreement between the District and City of Scottsdale. The city is currently working on the hydrology LOMR for the project. Final Design for the project is scheduled for FY23.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$10,000     |
| FY 2023        | \$1,030,000  |
| FY 2024        | \$7,650,000  |
| FY 2025        | \$7,650,000  |
| FY 2026        | \$0          |
| 5-Year Program | \$16,340,000 |

PCN: 122.01.31





### **Paradise Ridge Channel**

Dan Frank, Project Manager

602-506-4073

Dan.Frank@maricopa.gov

District: 3

Jurisdiction: Phoenix

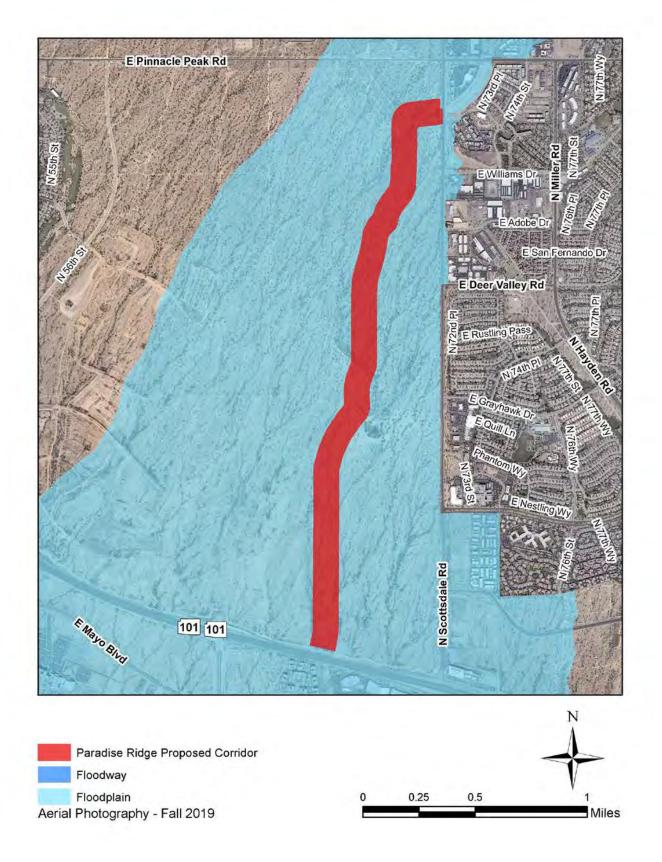
Origin:

Resolution: FCD 2020R003 Agreement: FCD 2020A030

Design and construction of a natural desert trapezoidal channel and appurtenant facilities to provide the 100-yr conveyance and contain the existing floodplain. The proposed projects northern limits is at Scottsdale Rd. and extends approximately 3.5 miles downstream with a southern limit at the impoundment area of the U.S. Bureau of Reclamation Dike #2 just north of the CAP canal. The Paradise Ridge Channel is the next downstream segment of the Rawhide Wash drainage solution and was identified in the Pinnacle Peak West Area Drainage Master Study as being a necessary component to control the alluvial fan flooding in the area. This Project will reduce the flood hazard in the area and complete the final step of a comprehensive solution to the Rawhide Wash drainage corridor. Currently working on IGA with the City of Phoenix, and design will commence in FY22.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$1,425,000  |
| FY 2023        | \$450,000    |
| FY 2024        | \$14,180,000 |
| FY 2025        | \$14,220,000 |
| FY 2026        | \$0          |
| 5-Year Program | \$30,275,000 |

PCN: 122.02.31



#### White Tanks FRS No.4 Rehabilitation

Dave Degerness, P.E., Project Manager

602-506-4730

Dave.Degerness@maricopa.gov

District: 4

Jurisdictions: Buckeye & Unincorporated Maricopa County

Origin: FY 2006 Prioritization Procedure

Resolution: FCD 2008R0005

Agreements: FCD 2010A005, FCD 2010A005A

White Tanks Flood Retarding Structure (FRS) No.4 was constructed in 1954 by the Natural Resources Conservation Service (NRCS) (then Soil Conservation Service). By agreement, the District operates and maintains the structure.

The District completed Phase I Assessments for White Tanks FRS No.4, and the Arizona Department of Water Resources (state agency with regulatory authority) classified the dam as having safety deficiencies; corrective action is required to bring the dam into compliance with dam safety standards and requirements. Deficiencies include transverse cracking of the embankment, inadequate left and right spillways and unprotected corrugated metal pipe outlets. NRCS identified these same deficiencies as requiring corrective action.

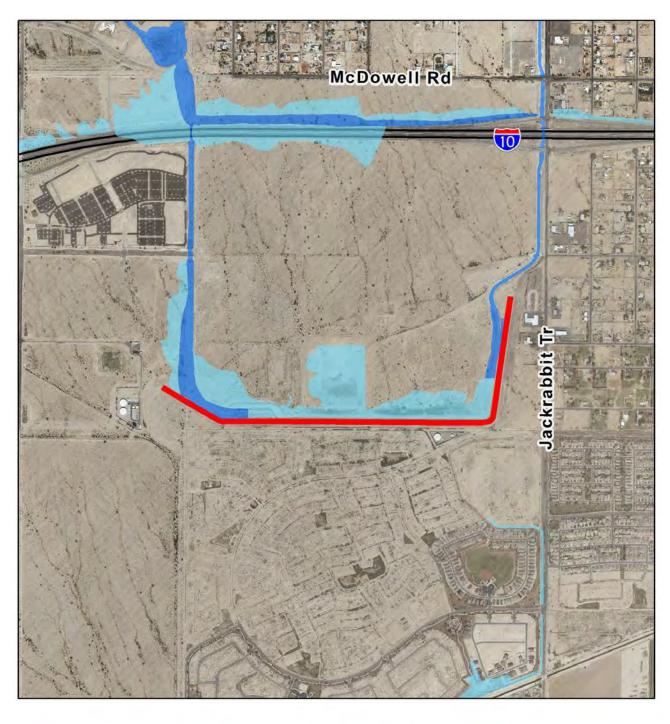
The District submitted an application to NRCS for federal funding assistance under Public Law 106-472 (Small Watershed Rehabilitation Amendments) in May 2004, and the District and NRCS entered into an intergovernmental agreement for project implementation.

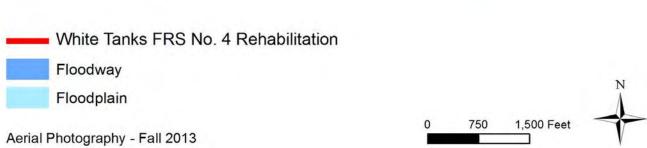
Construction is complete, and included extensions of the dam embankment to the north across Roosevelt Avenue to close off the left emergency spillway from operation. The right emergency spillway was widened to accommodate the loss of the left emergency spillway and the flood pool was graded to fill in the ADOT borrow pit and allow for positive drainage of the impoundment area.

Construction utilized Construction Manager at Risk contracts. Construction was completed in FY18, currently finalizing project closeout.

| Fiscal Year    | Budget   |
|----------------|----------|
| FY 2022        | \$47,000 |
| FY 2023        | \$0      |
| FY 2024        | \$0      |
| FY 2025        | \$0      |
| FY 2026        | \$0      |
| 5-Year Program | \$47,000 |

PCN: 201.02.31





## McMicken Dam Rehabilitation Project – Phase 1 & 2

Dave Degerness, P.E., Project Manager

602-506-4730

Dave.Degerness@maricopa.gov

District: 4

Jurisdictions: Surprise & Unincorporated Maricopa County

Origin: FY 2012 Prioritization Procedure

Resolution: FCD 2010R009

Agreement: None

The McMicken Dam Project was constructed by the U.S Army Corps of Engineers in 1954 and 1955 to protect Luke Air Force Base, the Litchfield Park Naval Air Facility and agricultural activities in the area from flooding; it also provides flood protection for critical public facilities and infrastructure including hospitals, schools, police and fire stations, freeways and other public roadways, railroads and the Beardsley Canal. The McMicken Dam Rehabilitation Project includes McMicken Dam itself (approximately nine miles in length), the McMicken Dam Outlet Channel (approximately six miles in length) and the McMicken Dam Outlet Wash (approximately four miles in length) that discharges to the Agua Fria River.

The ability of the McMicken Dam to maintain the current level of flood protection for the benefit of the public in an increasingly urbanized environment is in question due to its age, land subsidence, earth fissuring, urbanization encroachment and current dam safety standards. These safety issues have led the District to determine that an overall rehabilitation or replacement of the dam is required. Alternatives may include a modified dam, floodways or basins which will provide a minimum of 100-year flood protection. The District has pursued, and continues to pursue, federal funding assistance for this project; however, a lack of federal funding availability has required a unilateral implementation by the District.

Project in multiple phases with Ph. 1 & 2 under final design. Construction will include relocating the emergency spillway, improving the outlet channel and rehab of the dam embankment. Phase 1 of construction is scheduled to start in FY22.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$20,288,000 |
| FY 2023        | \$20,100,000 |
| FY 2024        | \$27,120,000 |
| FY 2025        | \$10,650,000 |
| FY 2026        | \$7,000,000  |
| 5-Year Program | \$85,158,000 |

PCN: 202.02.31







## McMicken Dam Rehabilitation Project - Ph. 3

Dave Degerness, P.E., Project Manager

602-506-4730

Dave.Degerness@maricopa.gov

District: 4

Jurisdictions: Surprise & Unincorporated Maricopa County

Origin: FY 2012 Prioritization Procedure

Resolution: 2010R009 Agreement: None

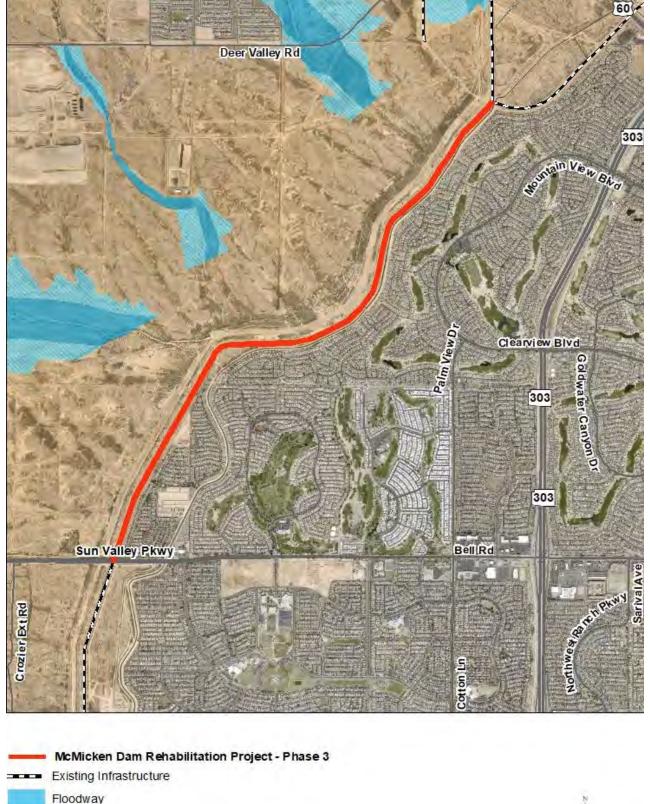
The McMicken Dam Project was constructed by the U.S Army Corps of Engineers in 1954 and 1955 to protect Luke Air Force Base, the Litchfield Park Naval Air Facility and agricultural activities in the area from flooding; it also provides flood protection for critical public facilities and infrastructure including hospitals, schools, police and fire stations, freeways and other public roadways, railroads and the Beardsley Canal. The McMicken Dam Rehabilitation Project includes McMicken Dam itself (approximately nine miles in length), the McMicken Dam Outlet Channel (approximately six miles in length) and the McMicken Dam Outlet Wash (approximately four miles in length) that discharges to the Agua Fria River.

The ability of the McMicken Dam to maintain the current level of flood protection for the benefit of the public in an increasingly urbanized environment is in question due to its age, land subsidence, earth fissuring, urbanization encroachment and current dam safety standards. These safety issues have led the District to determine that an overall rehabilitation or replacement of the dam is required. Alternatives may include a modified dam, floodways or basins which will provide a minimum of 100-year flood protection. The District has pursued, and continues to pursue, federal funding assistance for this project; however, a lack of federal funding availability has required a unilateral implementation by the District.

Phase 3 Construction is the NFRZ (Non Fissure Risk Zone) immediately south of Phase 2 and includes a portion north and south of Sun Valley parkway. Project will be an earth embankment dam with a sloping upstream filter.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$990,000    |
| FY 2023        | \$630,000    |
| FY 2024        | \$755,000    |
| FY 2025        | \$730,000    |
| FY 2026        | \$15,710,000 |
| 5-Year Program | \$18,815,000 |

PCN: 202.03.31



#### McMicken Dam Outfall Channel

Frank Hakari, P.E., Project Manager

602-506-2943

Frank.Hakari@maricopa.gov

District: 4

Jurisdictions: Surprise & Unincorporated Maricopa County

Origin: FY 2012 Prioritization Procedure

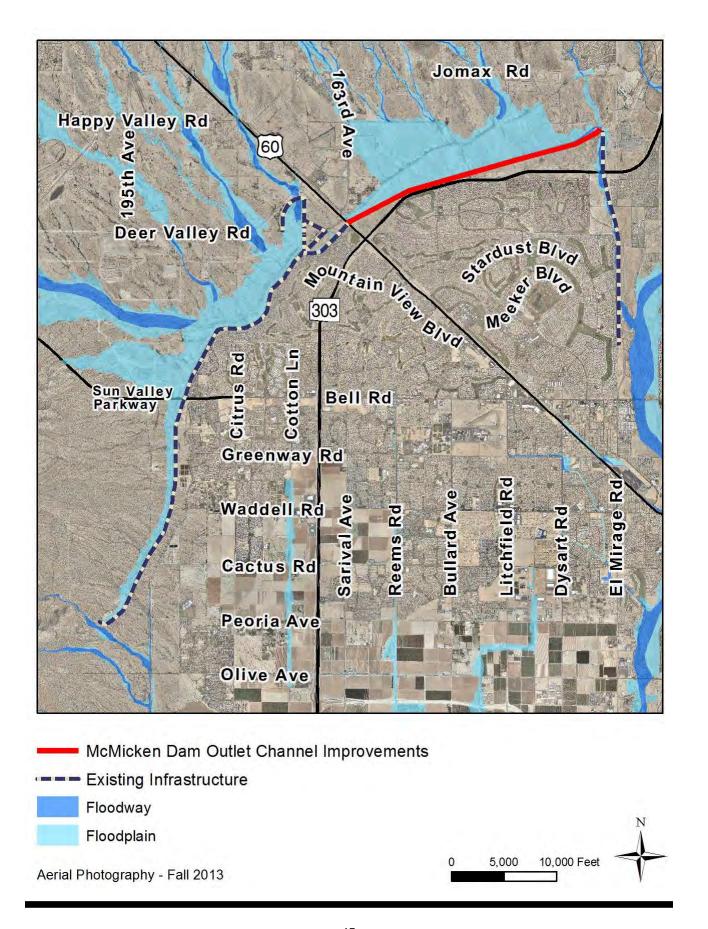
Resolution: 2010R009 Agreement: None

The McMicken Dam Project was constructed by the U.S Army Corps of Engineers in 1954 and 1955 to protect Luke Air Force Base, the Litchfield Park Naval Air Facility and agricultural activities in the area from flooding; it also provides flood protection for critical public facilities and infrastructure including hospitals, schools, police and fire stations, freeways and other public roadways, railroads and the Beardsley Canal. The McMicken Dam Rehabilitation Project includes McMicken Dam itself (approximately nine miles in length), the McMicken Dam Outlet Channel (approximately six miles in length) and the McMicken Dam Outlet Wash (approximately four miles in length) that discharges to the Agua Fria River.

Alternatives were evaluated for rehabilitation of the outlet channel and the recommended alternative is an incised channel. Construction of Phase 1 is complete, anticipate starting construction on Phase 2 in FY22.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$8,706,000  |
| FY 2023        | \$5,000,000  |
| FY 2024        | \$0          |
| FY 2025        | \$0          |
| FY 2026        | \$0          |
| 5-Year Program | \$13,706,000 |

PCN: 204.01.30



### **Guadalupe FRS Rehabilitation**

Dave Degerness, P.E., Project Manager

602-506-4730

Dave.Degerness@maricopa.gov

District: 1 & 5

Jurisdictions: Phoenix, Tempe

Origin: FY 2016 Prioritization Procedure

Resolution: 2014R001 Agreement: Pending

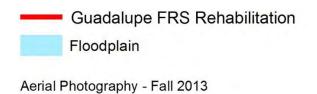
Guadalupe Flood Retarding Structure (FRS) is an earthen structure consisting of three dams, North Dam No. 1, North Dam No. 2 and East Dam. The FRS detains floodwater at the mouth of Pima Wash and releases it to the Western Canal via an underground pipe. The reservoir pool is grass-lined and used for part of the golf course for the Arizona Grand Resort. The structure is 2,910 feet in length and has a height of 35 feet, with a storage capacity of 252 acre-feet. The U.S. Soil Conservation Service, now the Natural Resources Conservation Service (NRCS), was the federal sponsor. The District and the U.S. Soil Conservation Service were cost share partners on this project. The Arizona Grand Resort is responsible for the maintenance of the emergency spillway, erosion control on the embankments and landscaping. The District is responsible for the structural and functional integrity of the structure.

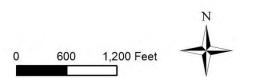
The District has identified deficiencies with Guadalupe FRS that require corrective action. Rehabilitation work will include replacing the intake structure with an updated design standard intake structure, installing a filter diaphragm around the principal spillway and slip lining and/or replacing the existing principal spill way pipe both through and downstream of the dam. Design is scheduled to start during FY23.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$0          |
| FY 2023        | \$1,475,000  |
| FY 2024        | \$7,100,000  |
| FY 2025        | \$7,165,000  |
| FY 2026        | \$0          |
| 5-Year Program | \$15,740,000 |

PCN: 205.01.30







### **Buckeye FRS No.1 Rehabilitation**

Dave Degerness, P.E., Project Manager

602-506-4730

Dave.Degerness@maricopa.gov

District: 4

Jurisdictions: Buckeye & Unincorporated Maricopa County

Origin: FY 2006 Prioritization Procedure

Resolution: FCD 2009R007

Agreement: FCD 2011A004, FCD 2011A004A

Buckeye FRS No.1 is the westernmost of a series of three flood control dams designed and built by the Soil Conservation Service (now the Natural Resources Conservation Service, or NRCS). The dam, built in 1974, is located along the southern slopes of the White Tank Mountains and parallels the north side of Interstate 10 for 7.1 miles between SR-85 and the Hassayampa River. The dam is operated and maintained by the District and is regulated by the Arizona Department of Water Resources (ADWR).

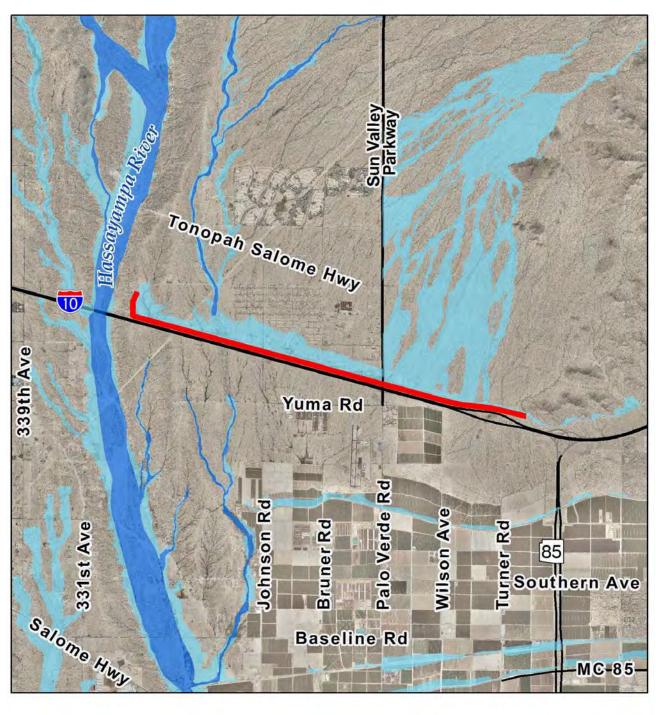
Since its construction, the dam has experienced considerable embankment cracking. ADWR has identified the embankment cracking in Buckeye FRS No.1 as a dam safety deficiency requiring corrective action. The District has requested NRCS federal cost share assistance under Public Law 106-472 for a rehabilitation project to address dam safety concerns and to maintain flood control benefits to downstream properties for the next 100 years. NRCS funding has been authorized; however, allocation of funding is awaiting budget availability.

The District completed a planning-level assessment of potential alternatives, including a modified dam, a channel/levee system and combinations of both providing a minimum of 100-year flood protection. The selected alternative consists of dam rehabilitation. Construction includes a new central filter along with improving the principal spillway and emergency spillway.

Construction is being accomplished in multiple phases. Phase 1 construction is complete. Phase 2A is complete. Final design is underway for Phase 2B. Phase 2B construction scheduled for FY22.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$8,814,000  |
| FY 2023        | \$7,181,000  |
| FY 2024        | \$0          |
| FY 2025        | \$0          |
| FY 2026        | \$0          |
| 5-Year Program | \$15,995,000 |

PCN: 207.01.31





## Downtown Buckeye Regional Basin and Storm Drain

Dan Frank, P.E., Project Manager

602-506-4073

Dan.Frank@maricopa.gov

District: 4

Jurisdiction: Buckeye

Origin: FY 2006 Prioritization Procedure

Resolution: FCD 2006R007 Agreement: FCD 2006A014

The City of Buckeye historically experienced flooding conditions downtown in the vicinity of Monroe Avenue (MC 85). The District completed a study that identified potential structural solutions: a 10-year storm drain system and outfall and 100-year retention basins.

This project will relieve historic downtown Buckeye of frequent flooding by implementing storm drains, channels, a retention basin, and an outlet. The project will mitigate flood damages to residential, commercial, governmental and industrial properties, while increasing traffic safety.

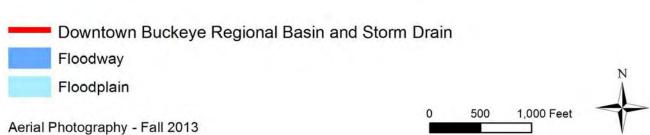
The project's IGA commits the District to provide 50 percent reimbursement to the city (the project's lead agency).

Design will be finalized by the city. Construction is scheduled to start in FY23.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$45,000    |
| FY 2023        | \$1,810,000 |
| FY 2024        | \$0         |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$1,855,000 |

PCN: 211.03.31





# **Granite Reef Wash Drainage Improvements**

Dan Frank, P.E., Project Manager 602-506-4073 Dan.Frank@maricopa.gov

District: 2

Jurisdictions: Scottsdale, Salt River Pima-Maricopa Indian Community

Origin: FY 2009 Prioritization Procedure

Resolution: FCD 2010R002

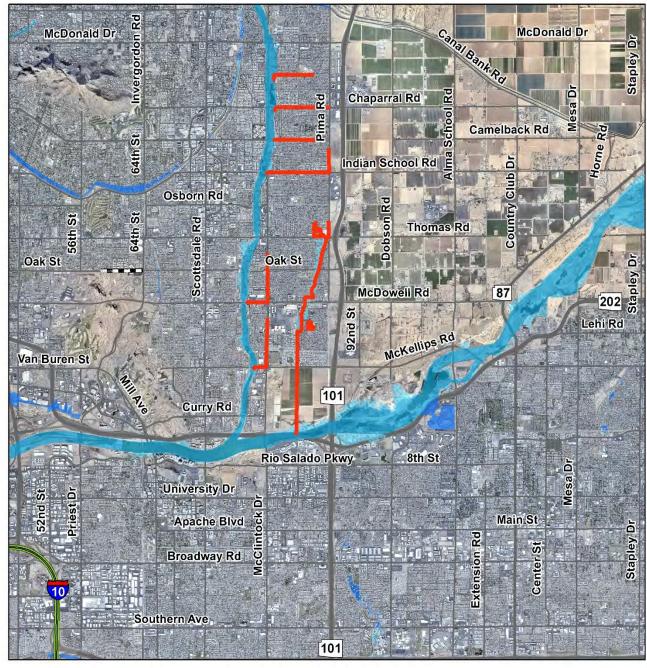
Agreement: FCD 2014A015, FCD 2020A029

The City of Scottsdale has historically experienced flooding in developed areas along Granite Reef Wash. The Granite Reef Watershed is located in the southeast part of the City of Scottsdale. The south part of the watershed includes a 100-year FEMA floodplain for Granite Reef Wash. Approximately 700 homes are within this floodplain. The current concepts for the related drainage improvement project include: the addition of inlets and lateral pipes to existing storm drain pipes that convey stormwater westward into Indian Bend Wash, two detention basins to attenuate stormwater flows, and various improvements to provide a stormwater outfall to the Salt River. The project improvements are expected to greatly reduce the floodplain. The City of Scottsdale is the lead agency for the project and is partnering with the Flood Control District of Maricopa County. The City is also coordinating and partnering with the Salt River Pima Maricopa Indian Community (SRPMIC) for the outfall segment of the project that lies within the SRPMIC.

The 2014 study developed drainage improvement concepts that include: storm drain inlets and laterals to be added to existing storm drains that convey flows to the west to Indian Bend Wash, two detention basins, new storm drains, and channels. Phase I-A and I-B construction is complete. Design Phase II features south of Indian School Rd. to Salt River underway in FY22.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$2,632,000 |
| FY 2023        | \$3,785,000 |
| FY 2024        | \$3,485,000 |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$9,902,000 |

PCN: 265.01.30





# Powerline/Vineyard/Rittenhouse FRS Rehabilitation and Replacement

Mel Bunkers, P.E., Project Manager

602-506-4602

Mel.Bunkers@maricopa.gov

District: 1

Jurisdictions: Mesa, Gilbert, Queen Creek
Origin: FY 2011 Prioritization Procedure

Resolution: FCD 2008R019

Agreements: FCD 2013A005, FCD 2013A006, FCD 2014A008,

FCD 2014A009 and FCD 2014A011

The Powerline, Vineyard Road and Rittenhouse (PVR) Flood Retarding Structures (FRSs) are located in northwest Pinal County, south of Apache Junction and parallel to the Central Arizona Project (CAP) canal between Baseline Road and Ocotillo Road. Per agreements with the Soil Conservation Service (now Natural Resources Conservation Service, or NRCS), the District operates and maintains the structures. The three FRSs mitigate flooding hazards impacting approximately 169 square miles of residential, commercial and agricultural land in Maricopa and Pinal counties, and protect structures such as the CAP canal, Phoenix-Mesa Gateway Airport and the Loop 202 San Tan Freeway.

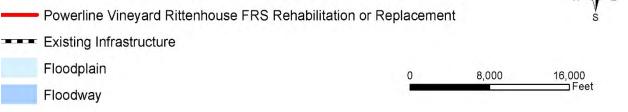
The Supplemental Watershed Plan and Environmental Assessment for all three structures is complete. The selected alternative involves rehabilitating Vineyard Road FRS, and Rittenhouse FRS, and replacing the Powerline FRS with a channel.

The District secured funding assistance from the NRCS in which the agency will cost share in 65% of the eligible construction costs for Phase 1 construction of Vineyard which is complete. Phase 2A construction began on March 1, 2017, and a cease and desist was issued by the NRCS on April 7, 2017. Vineyard Phase 2 and Phase 3 design proceeding to 100%. Actual continuation of construction of this project is contingent upon NRCS funding availability.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$1,686,000  |
| FY 2023        | \$0          |
| FY 2024        | \$20,370,000 |
| FY 2025        | \$23,989,000 |
| FY 2026        | \$15,300,000 |
| 5-Year Program | \$61,345,000 |

PCN: 310.01.30





Aerial Photography - 2019

# Powerline Channel and FRS Decommissioning

Mel Bunkers, P.E., Project Manager 602-506-4602 Mel.Bunkers@maricopa.gov

District: 1

Jurisdictions: Mesa, Gilbert, Queen Creek
Origin: FY 2011 Prioritization Procedure

Resolution: FCD 2008R019

Agreements: FCD 2013A005, FCD 2013A006, FCD 2014A008,

FCD 2014A009 and FCD 2014A011

The Powerline Flood Retarding Structure (FRS) is located in northwest Pinal County, south of Apache Junction and parallel to the Central Arizona Project (CAP) canal between Baseline Road and Ocotillo Road. The Powerline FRS is going to be decommissioned and will be replaced by the Powerline Channel (Channel). The Channel will intercept the flow that would normally flow to the Powerline FRS. The Channel will then discharge into the flood pool of the Vineyard Road FRS. The Channel will have to be constructed before the Powerline FRS can be decommissioned. Per agreements with the Soil Conservation Service (now Natural Resources Conservation Service, or NRCS), the District operates and maintains the structure.

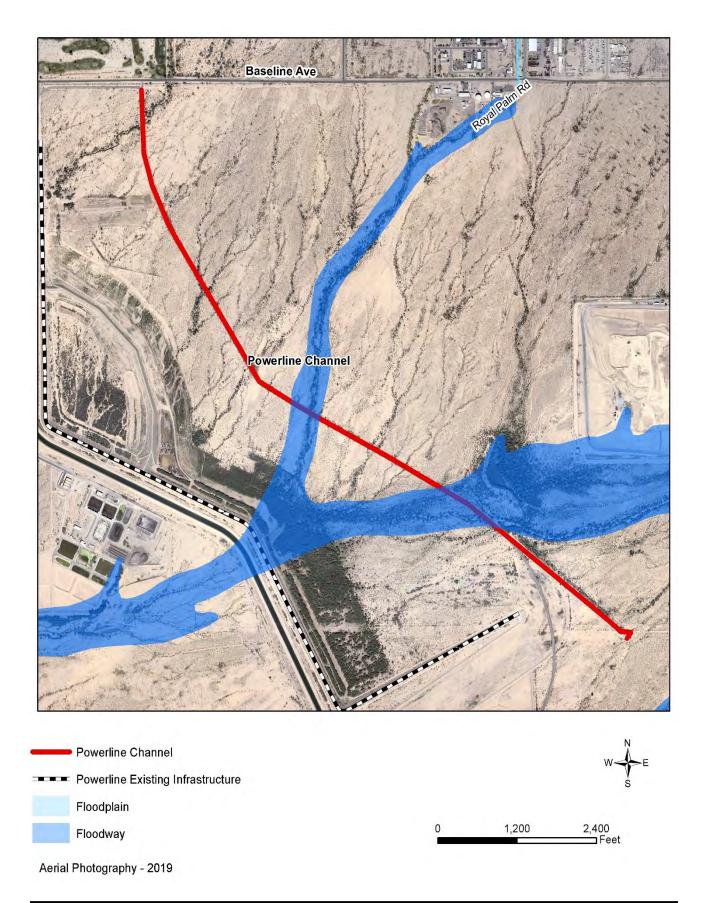
The Arizona Department of Water Resources recently reclassified the PVR FRSs as high hazard potential, medium size structures. The District prepared a Final Failure Mode Analysis Report, Structures Assessment Program Phase I (FFMA), in July 2002, that identified defects in the structures due to the age of the structures, proximity to fissures, subsidence of the area and cracking caused by drying shrinkage.

The Supplemental Watershed Plan and Environmental Assessment for all three structures is complete. The selected alternative involves rehabilitating Vineyard Road FRS, and Rittenhouse FRS, and replacing the Powerline FRS with a channel.

Final design is in progress. The Project is currently in the 100% design review stage. Awaiting further direction from NRCS regarding project funding/implementation. Project cannot be implemented until completion of the Vineyard FRS rehabilitation.

| Fiscal Year    | Budget    |
|----------------|-----------|
| FY 2022        | \$277,000 |
| FY 2023        | \$0       |
| FY 2024        | \$0       |
| FY 2025        | \$0       |
| FY 2026        | \$0       |
| 5-Year Program | \$277,000 |

PCN: 310.01.32



#### Saddleback FRS Modifications

Stephen Brown, P.E., Project Manager

602-506-5426

Stephen.Brown@maricopa.gov

Districts: 4 & 5

Jurisdiction: Unincorporated Maricopa County Origin: FY 2011 Prioritization Procedure

Resolution: FCD 2009R008

Agreement: Pending

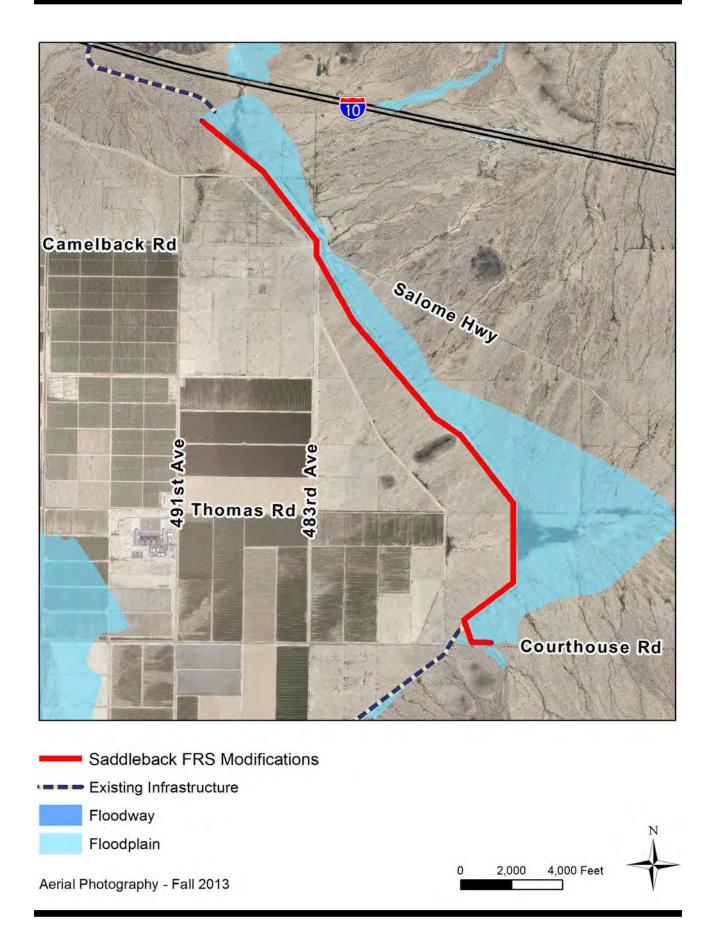
The Saddleback Flood Retarding Structure (FRS), located just south of Interstate 10, is a compact earth-fill dam which receives floodwaters discharged from the Harquahala FRS and runoff water from a more than 22-square mile drainage area. The floodwater is conveyed to the Saddleback Diversion Channel via the principal spillway and outfalls south at the tributary of Centennial Wash. The structure is 5.1 miles in length and has a height of 21 feet, with a storage capacity of 3,620-acre feet. The U.S. Soil Conservation Service, now the Natural Resources Conservation Service (NRCS), was the federal sponsor for construction. The District and the U.S. Soil Conservation Service were cost share partners on the initial construction of this structure.

Saddleback FRS has experienced the formation of numerous erosion holes and longitudinal cracking along the dam crest beginning approximately 2 years after construction was completed in 1982. Investigations, repairs, inspection, and monitoring of the structure have been ongoing, however the cause(s) of the cracking have not been determined.

The District has identified a need to repair Saddleback FRS to mitigate cracking in the upper portion of the embankment above the central filter. The District is pursuing NRCS funding assistance.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$0         |
| FY 2023        | \$0         |
| FY 2024        | \$0         |
| FY 2025        | \$0         |
| FY 2026        | \$2,800,000 |
| 5-Year Program | \$2,800,000 |

PCN: 331.01.30



## Sun City Drains – Olive Avenue-99<sup>th</sup> to 103<sup>rd</sup> Aves.

Frank Hakari, P.E., Project Manager

602-506-2943

Frank.Hakari@maricopa.gov

Districts: 4

Jurisdiction: Unincorporated Maricopa County Origin: FY 2021 Prioritization Procedure

Resolution: FCD 2019R005

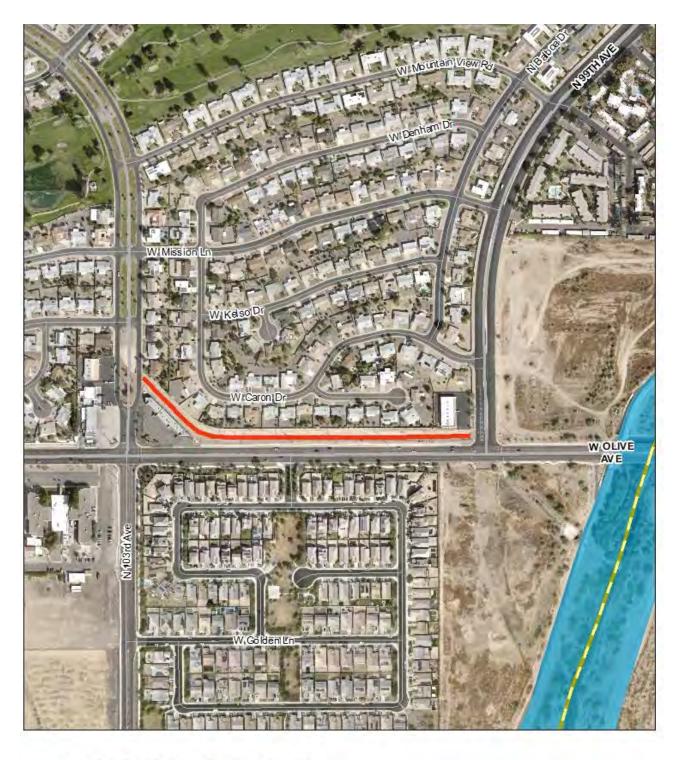
Agreement: None

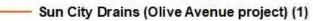
The drainage channel system of Sun City was constructed in the 1960's and 1970's, and those of Sun City West were constructed in the 1970's and 1980's, by the Del E. Webb Development Company. Operation/maintenance/ownership of these drainage systems were transferred to Maricopa County, via an agreement (ref. no. 90021a) in 1991, then transferred from the Maricopa County Department of Transportation (MCDOT) to the DISTRICT in 1999, via Intergovernmental Agreement number FCD1999A019.

The District through the Structure Assessment Findings from August 2014 and recent 2019 field inspections has identified deficiencies with the channel lining, the ramps, and access for maintenance. The project will remove the existing shotcrete channel lining and replace it with reinforced 8" concrete, install channel fall hazard pipe railing, and construct O & M access ramps to channel inverts. Project is in phases. Ph. 1 construction to complete in FY22.

| Fiscal Year    | Budget    |
|----------------|-----------|
| FY 2022        | \$427,000 |
| FY 2023        | \$0       |
| FY 2024        | \$0       |
| FY 2025        | \$0       |
| FY 2026        | \$0       |
| 5-Year Program | \$427,000 |

PCN: 337.01.30





Floodway

Floodplain

Aerial Photo: Fall 2020



## Sun City Drains – Grand Ave., Del Webb to Agua Fria (3)

Frank Hakari, P.E., Project Manager 602-506-2943

Frank.Hakari@maricopa.gov

Districts: 4

Jurisdiction: Unincorporated Maricopa County Origin: FY 2021 Prioritization Procedure

Resolution: FCD 2019R005

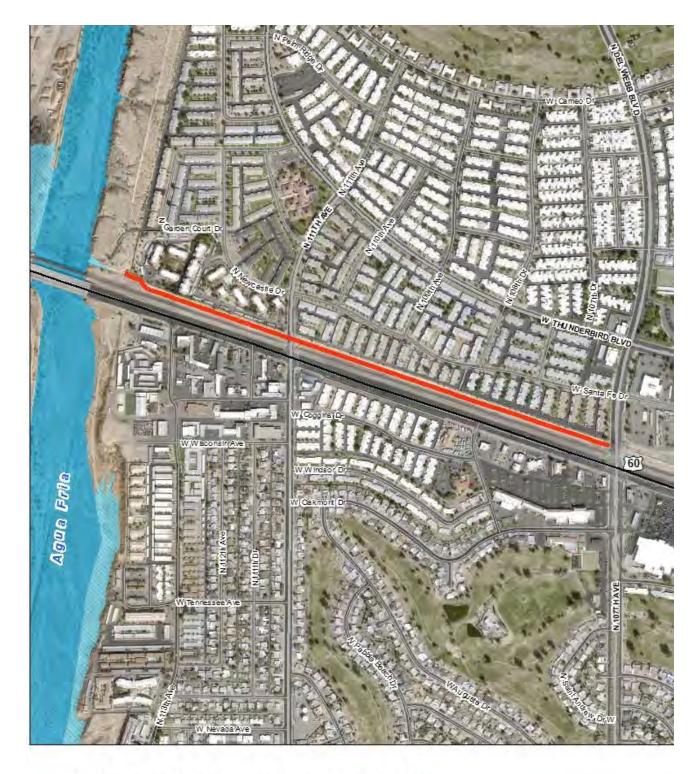
Agreement: None

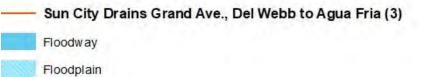
The drainage channel system of Sun City was constructed in the 1960's and 1970's, and those of Sun City West were constructed in the 1970's and 1980's, by the Del E. Webb Development Company. Operation/maintenance/ownership of these drainage systems were transferred to Maricopa County, via an agreement (ref. no. 90021a) in 1991, then transferred from the Maricopa County Department of Transportation (MCDOT) to the DISTRICT in 1999, via Intergovernmental Agreement number FCD1999A019.

The District through the Structure Assessment Findings from August 2014 and recent 2019 field inspections has identified deficiencies with the channel lining, the ramps, and access for maintenance. The project will remove the existing shotcrete channel lining and replace it with reinforced 8" concrete, install channel fall hazard pipe railing, and construct O & M access ramps to channel inverts. Construction to start in FY22.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$2,858,000 |
| FY 2023        | \$0         |
| FY 2024        | \$0         |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$2,858,000 |

PCN: 337.01.31





Aerial Photo: Fall 2020



# Sun City Drains – Grand Ave., 103<sup>rd</sup> Ave. PCN: 337.02.30 to New River (7 & 8)

Frank Hakari, P.E., Project Manager 602-506-2943 Frank.Hakari@maricopa.gov

Districts: 4

Jurisdiction: Unincorporated Maricopa County Origin: FY 2021 Prioritization Procedure

Resolution: FCD 2019R005

Agreement: None

The drainage channel system of Sun City was constructed in the 1960's and 1970's, and those of Sun City West were constructed in the 1970's and 1980's, by the Del E. Webb Development Company. Operation/maintenance/ownership of these drainage systems were transferred to Maricopa County, via an agreement (ref. no. 90021a) in 1991, then transferred from the Maricopa County Department of Transportation (MCDOT) to the DISTRICT in 1999, via Intergovernmental Agreement number FCD1999A019.

The District through the Structure Assessment Findings from August 2014 and recent 2019 field inspections has identified deficiencies with the channel lining, the ramps, and access for maintenance. The project will remove the existing shotcrete channel lining and replace it with reinforced 8" concrete, install channel fall hazard pipe railing, and construct O & M access ramps to channel inverts. Design to start in FY22.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$615,000   |
| FY 2023        | \$8,080,000 |
| FY 2024        | \$0         |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$8,695,000 |





### Sun City West Drains - (5 & 12)

Frank Hakari, P.E., Project Manager

602-506-2943

Frank.Hakari@maricopa.gov

Districts: 4

Jurisdiction: Unincorporated Maricopa County Origin: FY 2021 Prioritization Procedure

Resolution: FCD 2019R005

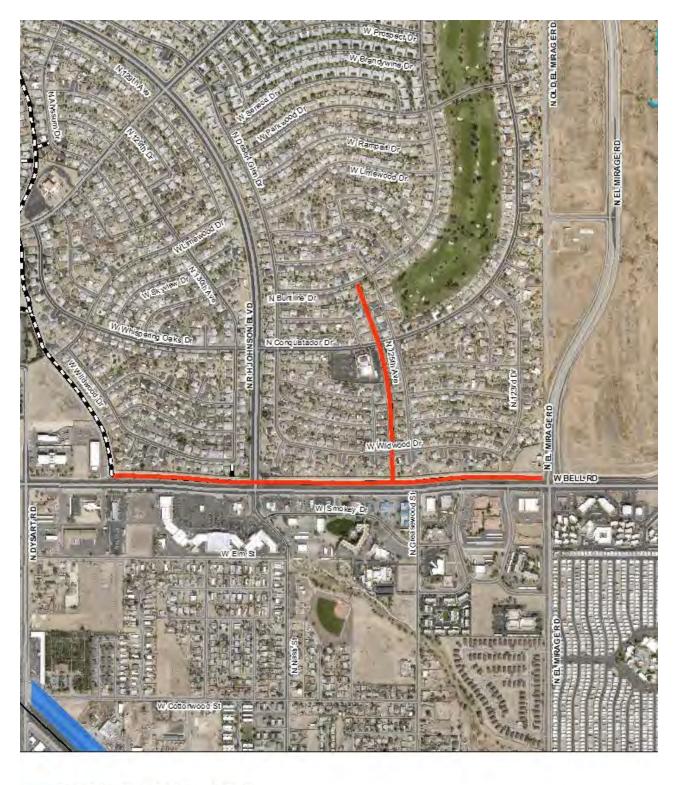
Agreement: None

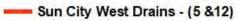
The drainage channel system of Sun City was constructed in the 1960's and 1970's, and those of Sun City West were constructed in the 1970's and 1980's, by the Del E. Webb Development Company. Operation/maintenance/ownership of these drainage systems were transferred to Maricopa County, via an agreement (ref. no. 90021a) in 1991, then transferred from the Maricopa County Department of Transportation (MCDOT) to the DISTRICT in 1999, via Intergovernmental Agreement number FCD1999A019.

These channels are aging and need major repairs. The design of the repairs will be done in-house and repairs will be implemented in conjunction with MCDOT where roadway crossings of the channels need improvements. Design to start in FY23.

| Fiscal Year    | Budget        |
|----------------|---------------|
| FY 2022        | \$790,000     |
| FY 2023        | \$10,970,000  |
| FY 2024        | \$455,000     |
| FY 2025        | \$0           |
| FY 2026        | \$0           |
| 5-Year Program | \$12,2150,000 |

PCN: 338.01.30





=== Existing Infrastructure

Floodway Floodplain

Aerial Photo: Fall 2020



# **Sunnycove FRS Seepage Collection System Improvements**

Carlos Encinas, P.E., Project Manager 602-506-4602 Carlos.Encinas@maricopa.gov

Districts: 4

Jurisdiction: Unincorporated Maricopa County Origin: FY 2018 Prioritization Procedure

Resolution: FCD 2016R006

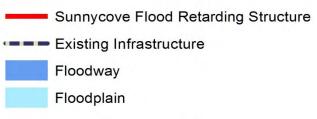
Agreement: None

A flaw was identified at the Sunnycove FRS during the July 2015 rain event in which flood water reverse flowed from the bubbler structure into the seepage collection system within the dam core during the time when there was high dam impoundment and a high head inside the bubbler structure. This proposed project will isolate the existing seepage pipes from the bubbler structure and individually extend them downstream to where they will discharge into an existing roadside v-ditch. A weir concrete box structure will also be constructed to allow FCD to collect, quantify and monitor seepage water during future impoundment events. Project will be completed in FY22.

| Fiscal Year    | Budget   |
|----------------|----------|
| FY 2022        | \$25,000 |
| FY 2023        | \$0      |
| FY 2024        | \$0      |
| FY 2025        | \$0      |
| FY 2026        | \$0      |
| 5-Year Program | \$25,000 |
|                |          |

PCN: 341.01.30





Aerial Photography - Fall 2015



#### **Cave Buttes Dam Modifications**

Steve Brown, P.E., Project Manager

602-506-5426

Steve.Brown@maricopa.gov

District: 3

Phoenix Jurisdiction:

Origin: FY 2011 Prioritization Procedure

Resolution: FCD 2009R009 FCD 2012A018 Agreement:

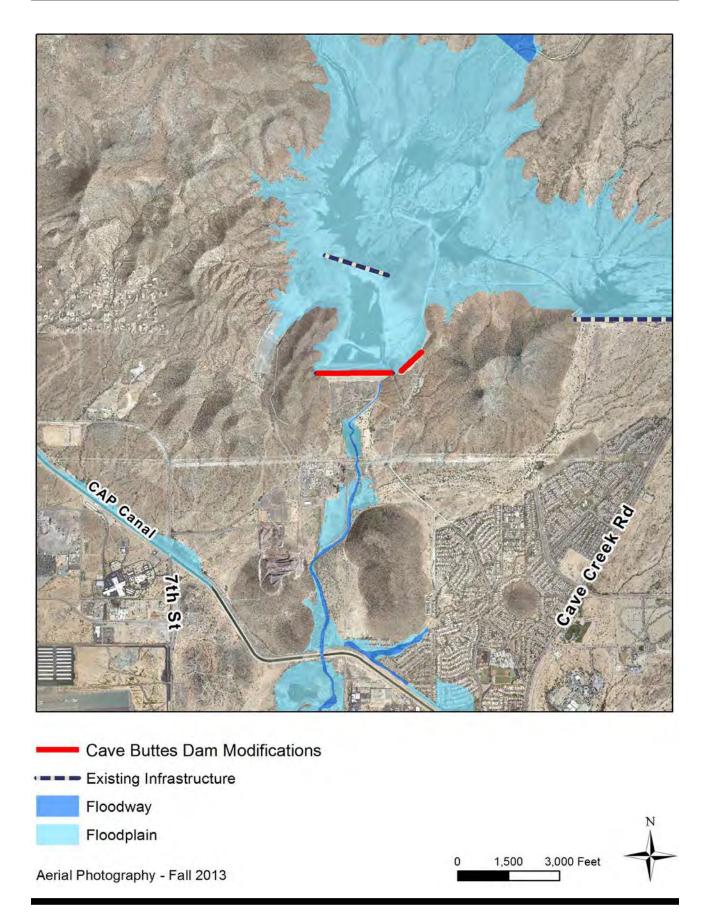
Cave Buttes Dam was constructed in 1980 under a District partnership with the U.S. Army Corps of Engineers, functionally replacing the Corps' 1923-era Cave Creek Dam. Cave Buttes Dam is operated and maintained by the District.

A substantial flood event in 1993 resulted in a significant impoundment of water behind the dam, and seepage occurred along the dam's left abutment. To prevent deterioration of embankment material from recurring seepage, the District pursued an analysis and investigation of the issue. This investigation has indicated that permanent remedial action is required.

Final design is in progress. Remediation will include the construction of an additional outlet with a drainage channel, and a seepage collection system at the downstream toe and abutment contacts of the main dam and dikes 1 and 2. Phase 1 is currently under construction using a Construction Manager at Risk (CMAR) contract with scheduled completion in summer of 2021.

| Fiscal Year    | Budget    |
|----------------|-----------|
| FY 2022        | \$835,000 |
| FY 2023        | \$0       |
| FY 2024        | \$0       |
| FY 2025        | \$0       |
| FY 2026        | \$0       |
| 5-Year Program | \$835,000 |

PCN: 350.01.30



#### **New River Dam Outlet Improvements**

#### Erik Arntz, Project Manager

602-506-1252 Erik.Arntz@maricopa.gov

District: 4
Jurisdiction: Peoria

Origin: FY 2012 Prioritization Procedure

Resolution: FCD 2011R004 Agreement: FCD 2021A007

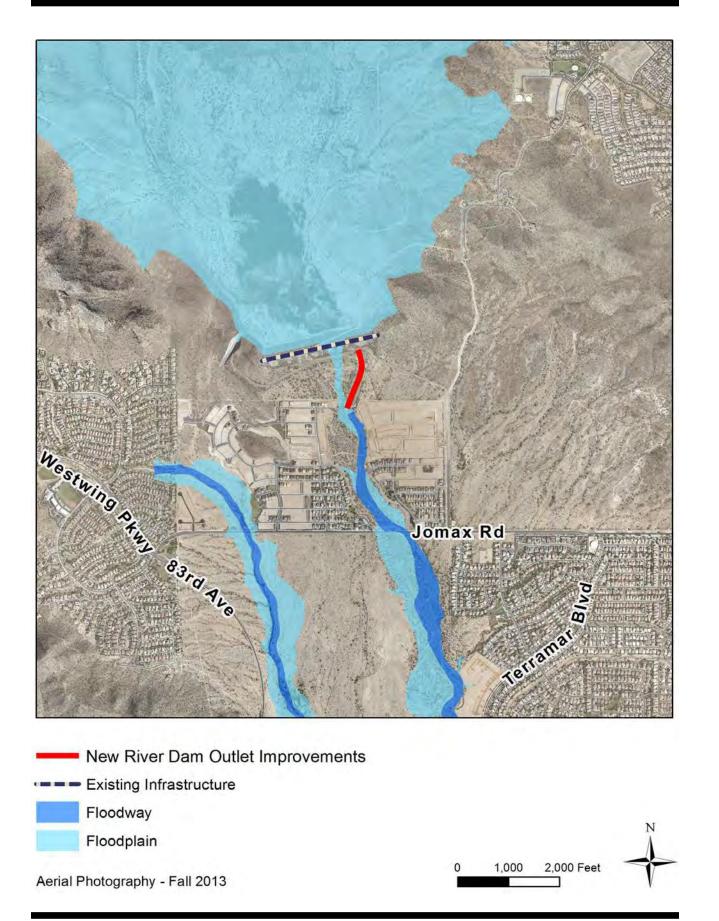
The District and the U.S. Army Corps of Engineers constructed the New River Dam and associated works in 1985 as part of the New River and Phoenix City Streams Flood Control Project, providing enhanced flood protection for downstream Maricopa County residents, and the District operates and maintains the dam. Erosion related to the dam's outlet channel will potentially impact District maintenance access, and has caused outlet flow restrictions and resultant stagnant impoundments contrary to design specifications.

District engineering efforts have identified that these conditions require corrective action, including improvements to the dam's outlet channel.

Design is complete. Construction is scheduled to begin FY22.

| Budget    |
|-----------|
| \$150,000 |
| \$0       |
| \$0       |
| \$0       |
| \$0       |
| \$150,000 |
|           |

PCN: 370.01.30



## Oak Street Detention Basin and Storm Drain

Frank Hakari, P.E., Project Manager

602-506-2943

Frank.Hakari@maricopa.gov

District: 2

Jurisdictions: Mesa, Unincorporated Maricopa County

Origin: FY 2008 Prioritization Procedure

Resolution: FCD 2002R008

Agreement: FCD 2009A008, FCD 2021A011

The Spook Hill Area Drainage Master Plan (ADMP), completed in 2002, identified regional flood control infrastructure necessary for a 35-square-mile area located in northeast Mesa. The ADMP watershed extends from the Usery Mountains on the north and the Apache Trail on the east, to the Buckhorn-Mesa structures on the west and south.

The Oak Street Detention Basin and Storm Drain project is the third scheduled project in support of this ADMP and involves construction of a basin at Oak Street and Hawes Road, and storm drains east along Oak Street and north along Hawes Road. The project will provide protection in conjunction with drainage infrastructure constructed by the Hermosa Vista/Hawes Road and McDowell Road projects.

Final design was completed in 2010. Before construction can begin Plans and Specifications are being updated. Construction is scheduled to start in FY22.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$7,242,000 |
| FY 2023        | \$1,010,000 |
| FY 2024        | \$0         |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$8,252,000 |

PCN: 420.04.31



## Ellsworth Road and McKellips Road Drainage System

Tim Murphy, P.E., Project Manager 602-506-4605 Tim.Murphy@maricopa.gov

District: 2 Jurisdiction: Mesa

Origin: FY 2008 Prioritization Procedure

Resolution: FCD 2002R008

Agreement: Pending

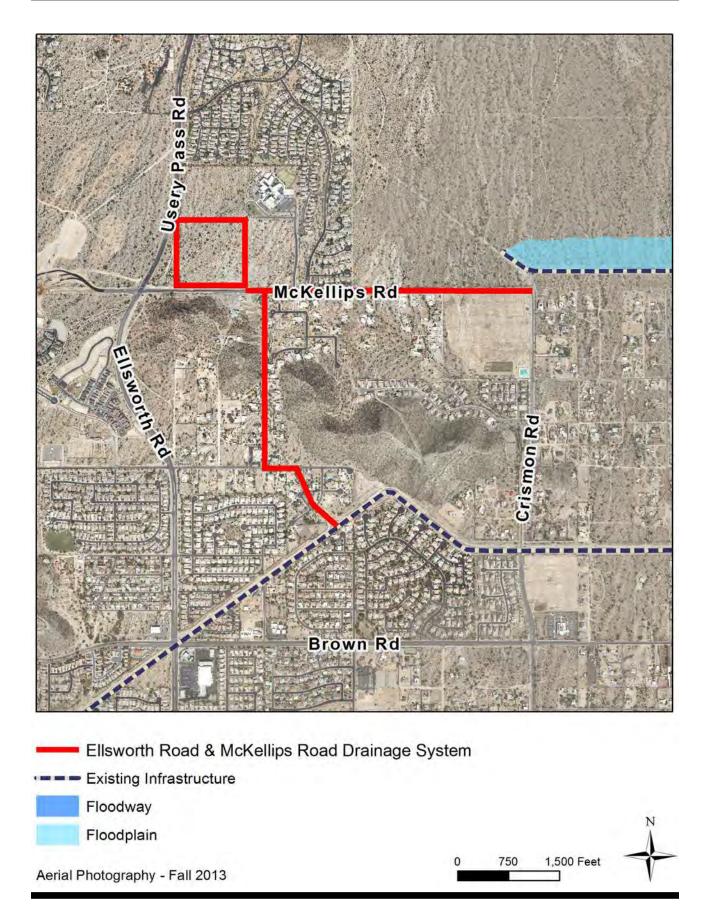
The Spook Hill Area Drainage Master Plan (ADMP), completed in 2002, identified regional flood control infrastructure necessary for a 35-square-mile area located in northeast Mesa. The ADMP watershed extends from the Usery Mountains on the north and the Apache Trail on the east, to the Buckhorn-Mesa structures on the west and south.

The Ellsworth Road and McKellips Road project is the fourth scheduled project in support of this ADMP and likely will involve construction of a basin at Ellsworth Road and McKellips Road, and a combination of open channel and storm drain east along McKellips Road and south along 94th Street. The basin rights-of-way are in place, owned by the city of Mesa. The project will provide protection to local, previously developed subdivisions, where historic flooding has been noted.

A design concept study is complete. The project's advancement into final design is dependent upon the availability of funds and the successful negotiation of an Intergovernmental Agreement between District and the City of Mesa.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$0          |
| FY 2023        | \$0          |
| FY 2024        | \$0          |
| FY 2025        | \$0          |
| FY 2026        | \$11,060,000 |
| 5-Year Program | \$11,060,000 |

PCN: 420.05.31



### **Pecos Road Drainage Improvements**

Dan Frank, P.E., Project Manager

602-506-4073

Dan.Frank@maricopa.gov

District: 2 Jurisdiction: Mesa

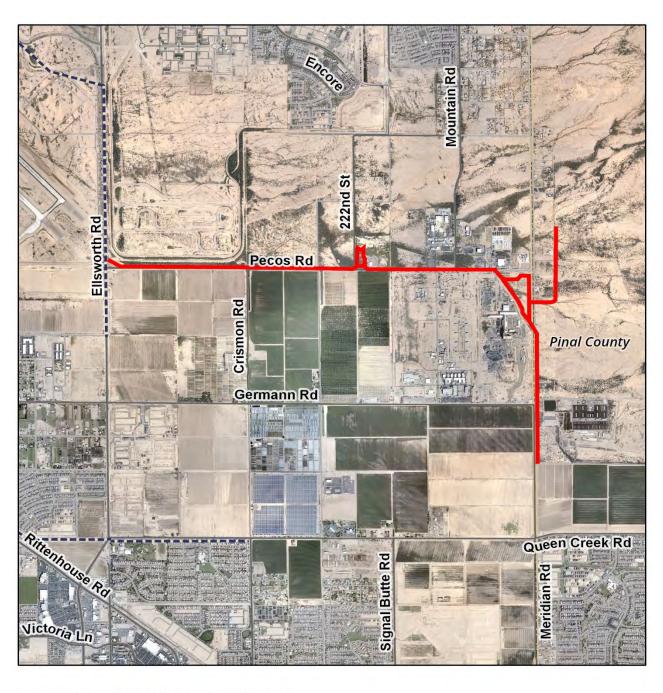
Origin: FY 2008 Prioritization Procedure

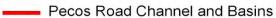
Resolution: Pending Agreement: Pending

The project was identified in the East Mesa ADMP Update and the Pecos Road Channel and Basin DCR. The proposed project will construct two detention basins and install storm drains along the Pecos Road alignment, extending from Meridian Road to Ellsworth Road. The project's advancement into final design is dependent upon the availability of funds and the successful negotiation of an Intergovernmental Agreement between District and the City of Mesa. Awaiting the East Mesa ADMP update to refine alternatives.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$0          |
| FY 2023        | \$0          |
| FY 2024        | \$675,000    |
| FY 2025        | \$4,265,000  |
| FY 2026        | \$7,150,000  |
| 5-Year Program | \$12,090,000 |

PCN: 442.02.30



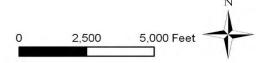


---- Existing Infrastructure

Floodway

Floodplain

Aerial Photography - Fall 2018



# Pinnacle Peak & 67<sup>th</sup> Avenue Drainage Improvements

Frank Hakari, P.E., Project Manager

602-506-2943

Frank.Hakari@maricopa.gov

District: 4
Jurisdiction: Peoria

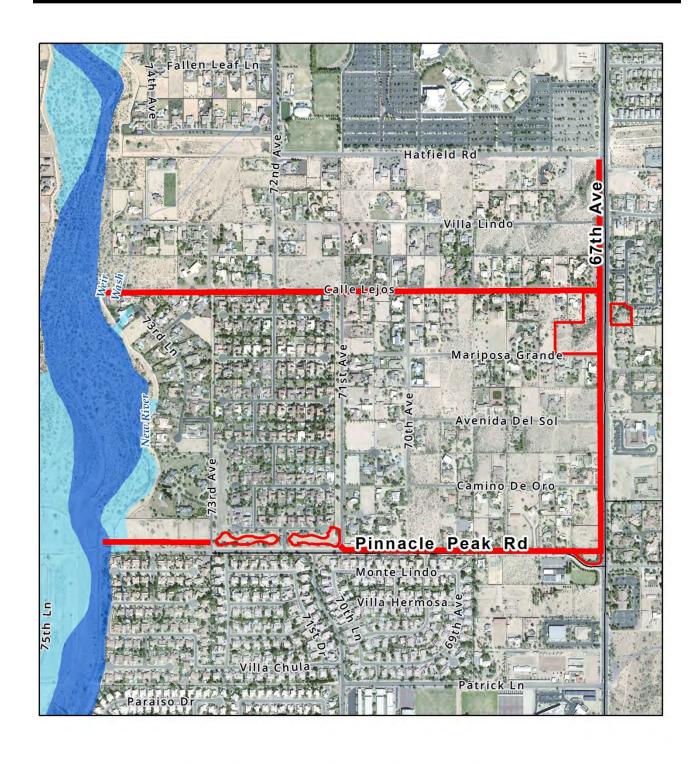
Origin: FY 2018 Prioritization Procedure

Resolution: FCD 2011R009 Agreement: FCD 2020A013

This project includes the design and construction of a series of storm drains, detention basins, and channels along Pinnacle Peak Road and 67<sup>th</sup> Avenue. The project was recommended under the Glendale-Peoria Area Drainage Master Plan update, and was submitted to the CIPPP for FY18. The City of Peoria will be the lead agency for the design and construction. Project is currently under design.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$1,415,000 |
| FY 2023        | \$3,010,000 |
| FY 2024        | \$3,010,000 |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$7,435,000 |

PCN: 450.01.30





# Detention Basin at the Town of Queen Creek East Park Sports Complex

Dan Frank, P.E., Project Manager

602-506-4073

Dan.Frank@maricopa.gov

District: 1

Jurisdiction: Town of Queen Creek

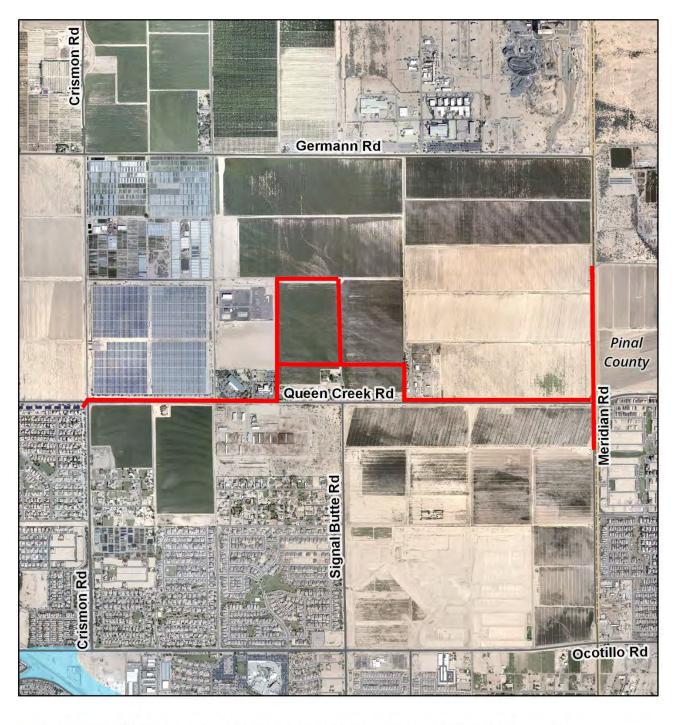
Origin: FY 2020 Prioritization Procedure

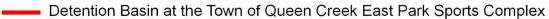
Resolution: FCD 2019R001 Agreement: FCD 2019A003

This project is for the regional detention basin co-located at the site of the Town of Queen Creek's future East Park Sport Complex. The park location will be near the northwest corner of Queen Creek Road and Signal Butte Road. The project will mitigate flooding in the area of the park and provide an outfall for drainage systems upstream of the basin. The basin will be part of a multiuse park sports complex. The project also includes a channel and culverts to convey outflows from the basin to the existing channel (which is a part of the Rittenhouse Road Channel drainage system) at Queen Creek road and Crismon Road. The Town is the lead on this project and project is currently under design.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$1,650,000 |
| FY 2023        | \$935,000   |
| FY 2024        | \$0         |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$2,585,000 |

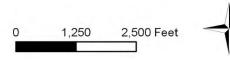
PCN: 480.01.33





- ---- Existing Infrastructure
- Floodway
- Floodplain

Aerial Photography - Fall 2018



## Durango Regional Conveyance Channel 107th Avenue to the Agua Fria River

PCN: 565.04.32

Frank Hakari, P.E., Project Manager 602-506-2943

Frank.Hakari@maricopa.gov

District: 5

Jurisdictions: Avondale, Unincorporated Maricopa County

Origin: FY 2003 Prioritization Procedure

Resolution: FCD 2006R020

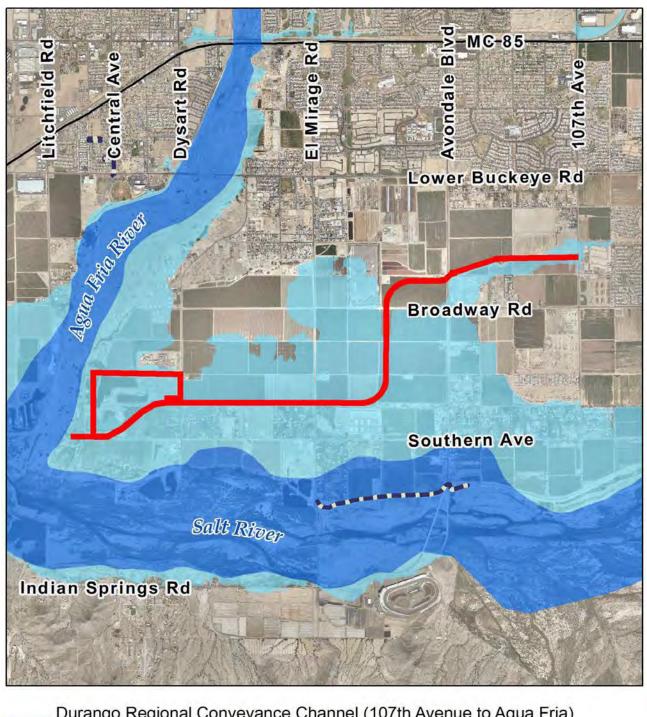
Agreement: Pending

The District completed the Durango Area Drainage Master Plan to develop and evaluate solutions to mitigate flooding hazards in the Durango drainage area. The study recommended a regional channel and basin in the vicinity of the Salt River Project Buckeye Feeder Canal to intercept storm water flows and provide an outfall to the Agua Fria River. The project would reduce flooding hazards and provide a 100-year outfall in the Durango drainage area.

This project constructs the portion of the recommended plan located between 107th Avenue and the Agua Fria River, and between Lower Buckeye Road and Southern Avenue. The City of Avondale submitted the project for consideration under the FY03 Prioritization Procedure, and the District anticipates participating in a cost-share agreement with the city.

Project implementation is dependent upon funding availability and the successful negotiation of an intergovernmental agreement between the District and the City of Avondale.

| Fiscal Year    | Budget    |
|----------------|-----------|
| FY 2022        | \$201,000 |
| FY 2023        | \$0       |
| FY 2024        | \$0       |
| FY 2025        | \$0       |
| FY 2026        | \$0       |
| 5-Year Program | \$201,000 |





# **Bethany Home Road Storm Drain (43<sup>rd</sup> to** PCN: 620.03.34 **51<sup>st</sup> Avenue)**

#### Frank Hakari, P.E., Project Manager

602-506-2943

Frank.Hakari@maricopa.gov

District: 5

Jurisdiction: Glendale

Origin: FY 1999 Prioritization Procedure

Resolution: FCD 98-12, 98-12A

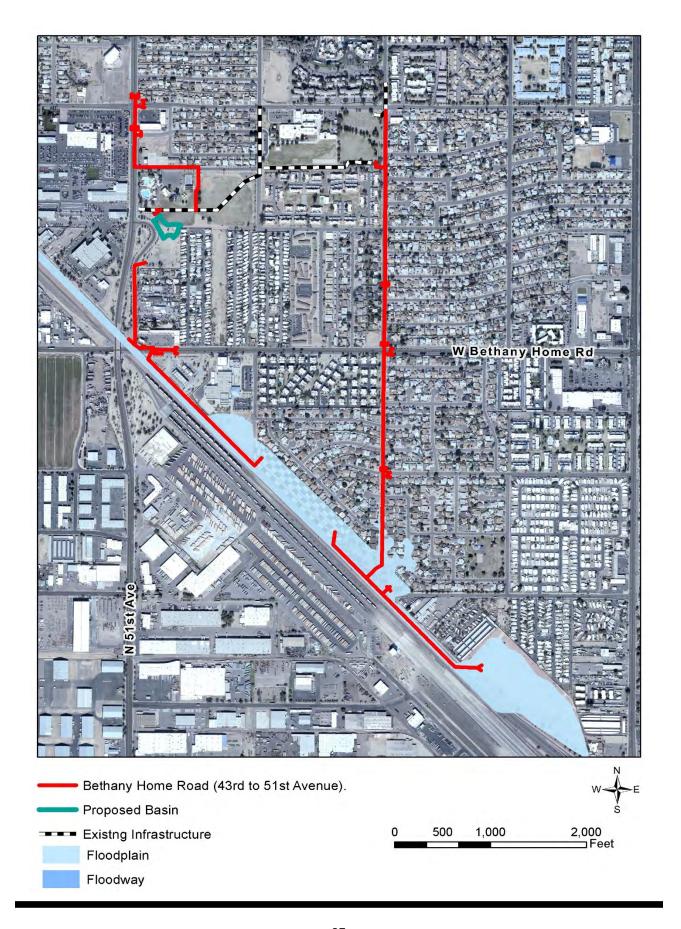
Agreements: FCD 2000A013, FCD 2002A003, FCD 2020A020

The Bethany Home Road Storm Drain project, resulting from the District's Maryvale Area Drainage Master Study, collects and conveys sheet flow that has historically flooded the Maryvale neighborhood in the City of Glendale.

The project will construct several storm drain systems discharging to existing basins providing 100-year flood protection to properties in the area from 51<sup>st</sup> Avenue to 43<sup>rd</sup> Avenue and from Maryland Avenue to just south of Missouri Avenue. The City of Glendale is the lead agency for project design and construction, and the District will contribute 50 percent of the project cost.

Project currently under design.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$325,000   |
| FY 2023        | \$4,070,000 |
| FY 2024        | \$0         |
| FY 2025        | \$0         |
| FY 2026        | \$0         |
| 5-Year Program | \$4,395,000 |



## Bethany Home Road Storm Drain 59th Avenue to 51st Avenue

Frank Hakari, P.E., Project Manager

602-506-2943

Frank.Hakari@maricopa.gov

District: 5

Jurisdiction: Glendale

Origin: FY 1999 Prioritization Procedure

Resolution: FCD 98-12, 98-12A

Agreements: FCD 2000A013, 2002A003

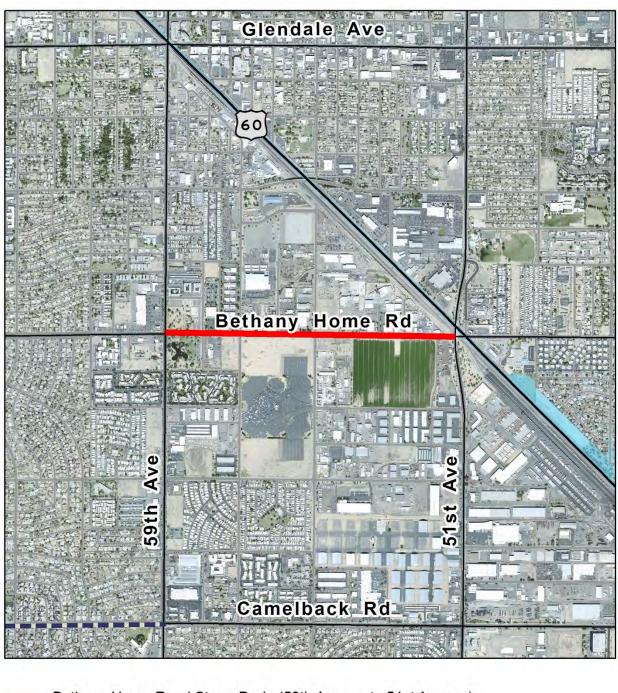
The Bethany Home Road Storm Drain project, resulting from the District's Maryvale Area Drainage Master Study, collects and conveys sheet flow that has historically flooded the Maryvale neighborhood in the City of Glendale.

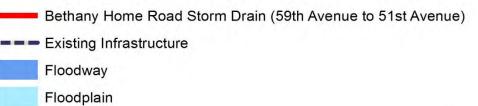
The project consists of a 10-year storm drain in Bethany Home Road that ultimately conveys flows to the New River through the Bethany Home Outfall Channel. The City of Glendale is the lead agency for project design and construction, and the District will contribute 50 percent of the project cost.

Final design and construction schedule is dependent upon funding availability and partner commitment.

| Fiscal Year    | Budget      |
|----------------|-------------|
| FY 2022        | \$0         |
| FY 2023        | \$0         |
| FY 2024        | \$45,000    |
| FY 2025        | \$3,640,000 |
| FY 2026        | \$0         |
| 5-Year Program | \$3,685,000 |

PCN: 620.XX.X1





Aerial Photography - Fall 2017

1,750 Feet

#### Palm Lane and 30th Street

Nazar Nabaty, P.E., Project Manager

602-506-4592

Nazar.Nabaty@maricopa.gov

District: 5

Jurisdiction: Phoenix

Origin: FY 2019 Prioritization Procedure

Resolution: FCD 2008R001 Agreements: FCD 2018A014

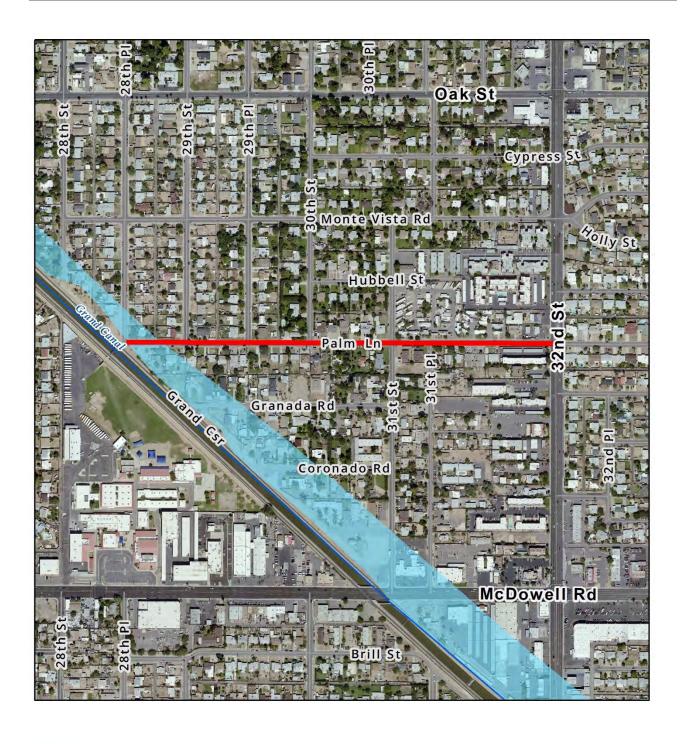
The Metro Phoenix Watershed Area Drainage Master Plan (ADMP) was completed in January 2008 and recommended solutions to flooding hazards. The Palm Lane and 30th Street drainage improvement project is not listed as one of the alternative solutions, but meets the goals of ADMP to alleviate an ongoing flooding problem. The project consists of a storm drain along the Palm Lane from 28th Place to 32nd Street, tying into an existing 57" storm drain trunk line, laterals, manholes, catch basins, and pavement.

Approximately 30 residential and commercial properties experienced flooding on a regular basis, and 10 of these have experienced structure damages within the floodplain of project area.

Project IGA is in place. Design is complete by the city. Construction started in FY22.

| Fiscal Year    | Budget    |
|----------------|-----------|
| FY 2022        | \$540,000 |
| FY 2023        | \$0       |
| FY 2024        | \$0       |
| FY 2025        | \$0       |
| FY 2026        | \$0       |
| 5-Year Program | \$540,000 |

PCN: 625.03.30





### Mandan Street Drainage Improvements

Dan Frank, P.E., Project Manager

602-506-4073

Dan.Frank@maricopa.gov

District: 5

Jurisdiction: Phoenix

Origin: FY 2018 Prioritization Procedure

Resolution: FCD 2017R002 Agreements: FCD 2017A019

The Mandan Street Drainage Improvements will provide a flood mitigation solution for the 100-year storm event to 17 homes along South Mandan Street between East Sacaton Street and East Mandan Street, in which many of the homes have been flooded several times. An application for grant funding from the Federal Emergency Management Agency (FEMA) has been made for this project. The project includes a channel to direct storm runoff away from the homes.

Project was completed in FY21. Landscape maintenance period in effect.

| Fiscal Year    | Budget   |
|----------------|----------|
| FY 2022        | \$99,000 |
| FY 2023        | \$0      |
| FY 2024        | \$0      |
| FY 2025        | \$0      |
| FY 2026        | \$0      |
| 5-Year Program | \$99,000 |

PCN: 630.01.31





#### **Circle K Park Detention Basin**

Don Rerick, P.E., Project Manager

602-506-4878

Don.Rerick@maricopa.gov

District: 5

Jurisdiction: Phoenix

Origin: FY 2013 Prioritization Procedure

Resolution: Pending Agreement: Pending

The District's Hohokam Area Drainage Master Study/Plan has identified drainage and flooding hazards in the south Phoenix area. Rainfall runoff from the South Mountain flows from the south to the north towards the Highline Canal. Approximately 0.65 square miles of watershed drains directly to the location of the Circle K Park and accumulates at that location. High volumes of floodwater will overtop the Highline Canal and proceed to pond in residential areas north of the canal. It is anticipated the project will construct a 35 acre-foot detention basin and provide a 10-year level of flood protection.

Design and construction schedule is dependent upon funding availability and the successful negotiation of an intergovernmental agreement between the District and City of Phoenix.

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$0          |
| FY 2023        | \$0          |
| FY 2024        | \$0          |
| FY 2025        | \$0          |
| FY 2026        | \$12,980,000 |
| 5-Year Program | \$12,980,000 |
|                |              |

PCN: 640.XX.X1



#### **Small Project Assistance Program**

#### Kim Belt, CPM, CIP Program Supervisor

602-506-3639

Kim.Belt@maricopa.gov

District: All Jurisdiction: All

Origin: Small Project Assistance Program Resolution: FCD 2009R003, 2009R003A, B and C

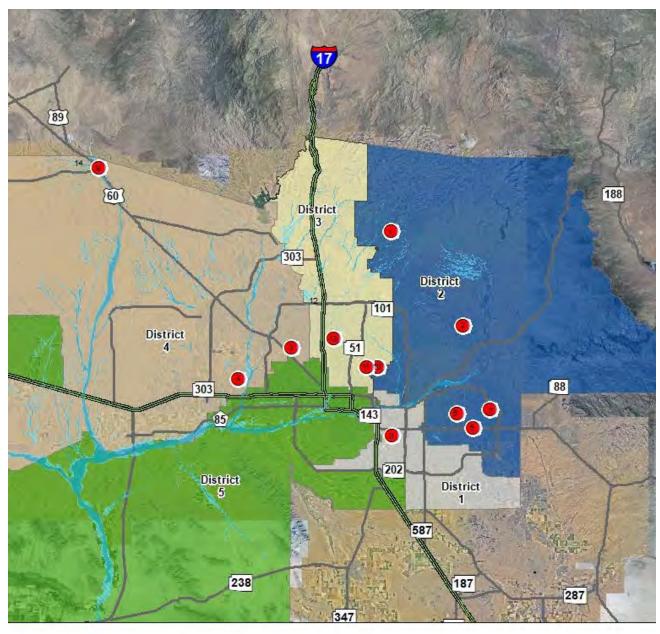
Agreement: Various

Localized flood hazards exist throughout Maricopa County, and the mitigation of these localized flood hazards, on a limited basis, is consistent with the District's statutory obligation. The District's Small Project Assistance Program is intended to provide financial assistance to the municipalities of Maricopa County, on a limited basis, for implementation of local flood hazard mitigation capital projects. Among other stipulations, the highly structured program authorizes a \$500,000 per-project District cost share cap for design and construction. Partner agencies have lead responsibilities and will operate and maintain all projects.

For Fiscal Years 2021-23, 9 projects have been selected for District funding that, collectively, will reduce flows that have historically flooded over 129 residential and commercial properties.

- Cave Creek one project; FCD 2020A004;
- Fountain Hills one project; FCD 2020A010;
- Glendale one project; FCD 2020A009;
- Litchfield Park one project; FCD 2020A008;
- Mesa three projects, FCD 2020A005, 2020A006 & 2020A007;
- Paradise Valley two projects; FCD 2021A002 & 2021A003;
- **Phoenix** one project; FCD 2021A004;
- Tempe one project, FCD 2020A003;
- Wickenburg one project, FCD 2020A019

| Fiscal Year    | Budget       |
|----------------|--------------|
| FY 2022        | \$3,655,000  |
| FY 2023        | \$3,996,496  |
| FY 2024        | \$3,020,000  |
| FY 2025        | \$3,020,000  |
| FY 2026        | \$3,020,000  |
| 5-Year Program | \$16,711,496 |





#### **Floodprone Property Assistance Program**

#### Tim Murphy, P.E., Project Manager

602-506-4605

Tim. Murphy@maricopa.gov

District: All Jurisdiction: All

Origin: Floodprone Property Assistance Program Resolution: FCD 2006R003 and FCD 2006R003A

Agreement: None

The District has completed delineations covering about 68 percent of the approximately 6,000 miles of stream corridors in Maricopa County needing delineation for regulatory purposes. In many of the mapped areas, development took place prior to the floodplain mapping, and as floodplains were delineated, many residents learned that their homes were within regulatory floodplains.

The Floodprone Property Assistance Program (FPAP) involves the voluntary purchase of properties in flood hazard areas where structural solutions are infeasible or impractical. Program applicants are scored and ranked under objective criteria.

Existing structures on purchased properties are demolished and removed; property may be preserved as open space, sold, or leased for uses compatible with adjacent properties and floodplain regulations.

| Fiscal Year    | Budget      |  |  |
|----------------|-------------|--|--|
| FY 2022        | \$2,000,000 |  |  |
| FY 2023        | \$0         |  |  |
| FY 2024        | \$0         |  |  |
| FY 2025        | \$0         |  |  |
| FY 2026        | \$0         |  |  |
| 5-Year Program | \$2,000,000 |  |  |

# Appendix A Completed Capital Projects Through Fiscal Year 2021 (Alphabetical)

| Project   | Map ID  | Location  | Year   |
|---|---|---|--|
| 9th Ave. Storm Drain (Peoria Ave. to ACDC)  | 48  | 9th Ave., Peoria Ave. to ACDC   | 2008   |
| 10th St. Wash Detention Basin No. 1   | 49  | 12th St. and Peoria Ave.  | 1996   |
| 10th St. Wash Detention Basin No. 2   | 49  | 11th St. and Alice Ave.   | 1997   |
| 10th St. Wash Improvements (Alice to ACDC)  | 50  | 10th St., Alice Ave to ACDC at Griswold Rd. alignment   | 2008   |
| 23rd Ave. and Roeser Rd. Storm Drain and Basin  | 108   | NE corner of 23rd Ave. and Roeser Rd.; outlets along Roeser Rd. and Broadway Rd.  | 2011   |
| 24th Ave. and Camelback Rd. Basin   | 53  | 24th Ave. and Camelback Rd.   | 2008   |
| 26th Ave. and Verde Ln. Basin   | 52  | Verde Ln. alignment; 26th Dr. to I-17 Frontage Rd.  | 2007   |
| 27th Ave. and South Mountain Ave. Basin & Storm Drain   | 125   | 27th Ave. and South Mountain Ave.   | 2017   |
| 35th Ave. and Dobbins Rd. Basin and Storm Drain   | 56  | 35th Ave. and Dobbins Rd.   | 2002   |
| 43rd Ave. and Baseline Rd. Basin  | 118   | NE corner of 43rd Ave. and Baseline Road  | 2014   |
| 43rd Ave. and Southern Ave. Detention Basin   | 54  | 43rd Ave. and Southern Ave.   | 2005   |
| 43rd Ave. Storm Drain   | 54  | 43rd Ave., Broadway Rd. to Baseline Rd.   | 2000   |
| 48th St. Drain  | 63  | San Francisco Canal, 48th St. to University Dr.   | 1981   |
| 48th St. Storm Drain  | 65  | 48th St., Baseline Rd. to 48th St. Drain  | 1988   |
| 51st Ave. Storm Drain (Bell Rd. to Thunderbird Rd.)   | 24  | 51st Ave., Bell Rd. to Thunderbird Rd.  | 1991   |
| 59th Ave. Storm Drain (Bell Rd. to ACDC)  | 24  | 59th Ave., Bell Rd. to ACDC   | 1991   |
| 67th Ave. Storm Drain (Bell Rd. to ACDC)  | 24  | 67th Ave., Bell Rd. to ACDC   | 1990   |
| 67th Ave. Storm Drain (Olive Ave. to ACDC)  | 34  | 67th Ave., Olive Ave. to ACDC   | 2009   |
| 75th Ave. Storm Drain & DRCC Phase 1  | 111   | Area bounded by 64th Ave. and 71st Ave. from south of Van Buren Ave. to Southern Ave.   | 2011   |
| 83rd Ave. and Pinnacle Peak Rd. Drainage Improvements   | 21  | Area bounded by Calley Lejos (N), Willisams Rd. (S), 91st Ave. (W), 83rd Ave. (E)   | 2008   |
| 83rd Ave. Grade Control Structure (Skunk Creek)   | 25  | 83rd Ave. and Skunk Creek   | 2003   |
| 91st Ave. and Bell Rd. Drainage   | 24  | 91st Ave., Bell Rd. to Greenway Rd.; Greenway Rd., 91st Ave. to New River   | 1991   |
| 115th Avenue/Union Hills Drive Drainage Improvements  | 126   | 115th Ave. & Union Hills Dr.  | 2019   |
| Adobe Dam   | 29  | Skunk Creek at Deer Valley Rd. alignment and 39th Ave. alignment  | 1982   |
| Adobe St. Structures over EMF   | 90  | Adobe St. 1/2 mi. east of Greenfield Rd.  | 1990   |
| ADOT Pit and Diversion Channel  | 72  | I-10, Elliot Rd. to 1/4 mi. south of Warner Rd.; I-10 and 1/4 mi. south of Warner Rd.   | 1987   |
| Agua Fria Channelization  | 28  | Agua Fria River, Camelback Rd. to 1/4 mi. south of Lower Buckeye Rd.  | 1988   |
| Alma School Drain   | 75  | McIellan Rd. alignment, Tempe Canal at Alma School Rd. to the Salt River  | 1969   |
| Apache Junction FRS and Floodway  | 86  | Lost Dutchman Blvd. and Idaho Rd.   | 1988   |
| Arizona Canal Diversion Channel   | 47  | Arizona Canal, 37th Street to New River   | 1994   |
| Ashbrook Wash Channelization Improvements   | 124   | Ashbrook Wash between Bayfield Drive and Del Cambre Avenue  | 2017   |
| Avondale Landfill Excavation  | 28  | Dysart Rd. and Buckeye Rd.  | 1986   |
| Baseline Rd. Storm Drain  | 55  | Baseline Rd., 7th Ave. to 43rd Ave.   | 2002   |
| Beardsley Rd. Drainage System (7th Ave. to 23rd Ave.)   | 32  | Beardsley Rd., 7th Ave. to 23rd Ave.  | 1995   |
| Bethany Home Outfall Channel (Phase I)  | 37  | Bethany Home Rd., SR-101L to New River  | 2000   |
| Bethany Home Outfall Channel (Phases IIA, IIB and IIC)  | 38  | Bethany Home Rd., SR-101L to 83rd Ave.; Grand Canal, Bethany Home Rd. to 67th Ave.  | 2008   |
| Broadway Rd. Collector Channel (Broadway Rd. to EMF)  | 88  | Approximately 1/2 mi. east of Higley Rd., Broadway Rd south for 1/3 mi. to EMF  | 1998   |
| Buckeye FRS No. 1<br>Buckeye FRS No. 2  | 7 8   | I-10, 331st Ave. to 257th Ave.<br>I-10, 254th Ave. to 237th Ave.  | 1975<br>1975   |
| Buckeye FRS No. 3   | 9   | I-10, 235th Ave. to 215th Ave.  | 1975   |
| Bullard Wash (Phase 1)  | 19  | Bullard Wash, Lower Buckeye Rd. alignment to Gila River   | 2001   |
| Bulldog Floodway  | 84  | Apache Junction FRS to Signal Butte FRS   | 1988   |
| Cactus Rd. Flood Control System   | 60  | Cactus Rd., Scottsdale Rd. to 64th St., 68th St., Cactus Rd. to Mescal Park   | 1991   |
| Cactus Rd. Flood Control System  Cactus Rd. Storm Drain (67th Ave. to SR-101L)  | 33  | Cactus Rd., 67th Ave. to Agua Fria Freeway (SR-101L)  | 1998   |
| Camelback Ranch Levee   | 28  | Agua Fria River and Camelback Rd.   | 1999   |
| Camelback Side Drain Extension  | 67  | Camelback Rd., 64th St. to 68th St; Lafayette Blvd., 64th St. to 68th St.   | 1986   |
| Camelback Road Storm Drain  | 107   | West Camelback Road from 59th Ave. to 75th Ave.   | 2012   |
| Carefree Town Center Drainage   | 103   | Area bounded by Sundance Tr. / Tom Darl. Dr. (NW), Bloody Bas. Rd. / Tranquil Tr. (SE)  | 2002   |
| Casandro Wash Dam   | 1   | North of US-60, between Mariposa Dr. alignment and Los Altos Dr. alignment  | 1996   |
| Casandro Wash Outlet  | 1   | Jackson St., Navajo St. to Mohave St.; Mohave St., Jackson St. to Casandro Wash   | 1996   |
| Cave Buttes Dam   | 42  | 16th St. alignment and Happy Valley Rd. alignment   | 1980   |
| Cave Buttes Dam Dike No. 1  | 42  | 18th St. alignment and Happy Valley Rd. alignment   | 1980   |
| Cave Buttes Dam Dike No. 2  | 42  | 32nd St. alignment , 1/2 mi. north of Happy Valley Rd. alignment  | 1980   |
| Cave Buttes Dam Dike No. 3  | 42  | 9th St. alignment and Dixileta Dr. alignment  | 1980   |
| Cave Creek Channelization   | 46  | Deer Valley Rd. to Arizona Canal  | 1991   |
| Cave Creek Dam  | 41  | 16th St. alignment and Jomax Rd. alignment  | 1923   |
| Centennial Levee  | 4   | South of I-10, T2N/R9W, T2N/R10W  | 1985   |
|   |   |   |  |
|   | 91  |   | 2001   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2   |   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr.   |  |
| Central Arizona Project Detention Basin No. 1   | 91  | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment   | 2001   |
| Central Arizona Project Detention Basin No. 1<br>Central Arizona Project Detention Basin No. 2  | 91<br>91  | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr.   | 2001<br>2001   |
| Central Arizona Project Detention Basin No. 1<br>Central Arizona Project Detention Basin No. 2<br>Central Arizona Project Detention Basin No. 3   | 91<br>91<br>91  | Approximately Sossaman Rd. alignment and approximately McIellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr.   | 2001<br>2001<br>2001   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4   | 91<br>91<br>91<br>91  | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr.  | 2001<br>2001<br>2001<br>2001   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5   | 91<br>91<br>91<br>91<br>91  | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave.   | 2001<br>2001<br>2001<br>2001<br>2001<br>2001   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet  | 91<br>91<br>91<br>91<br>91<br>78<br>45  | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash   | 2001<br>2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel   | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River  | 2001<br>2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System  | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment   | 2001<br>2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System   | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E)  | 2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam   | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57  | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave.  | 2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015<br>1973   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2   | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57  | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment.  | 2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015<br>2004<br>2015   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain  | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57<br>127   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd.to Agua Fria River  | 2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015<br>1973<br>2021   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway   | 91<br>91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57<br>127<br>17   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River   | 2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015<br>1973<br>2021<br>1996<br>1989   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain   | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>123<br>57<br>127<br>17   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 mi. south, to Agua Fria River  | 2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015<br>1973<br>2021<br>1996<br>1999   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain Elliot Rd. Basin and Channel  | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57<br>127<br>17<br>90   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Oilve Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 mi. south, to Agua Fria River Approx. Elliot Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 mi. north   | 2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015<br>2015<br>2021<br>1996<br>1989<br>1990<br>2007                         |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain Elillot Rd. Basin and Channel Ellsworth Rd. Channel at Phoenix-Mesa Gateway Airport   | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57<br>127<br>17<br>90   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 mi. south, to Agua Fria River Approx. Eliloit Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 mi. north North and East boundaries of Phoenix-Mesa Gateway Airport  | 2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015<br>1973<br>2021<br>1996<br>1989<br>1990<br>2007<br>2008                 |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain Elliot Rd. Basin and Channel Ellsworth Rd. Channel at Phoenix-Mesa Gateway Airport Elm Ln. Drainage Mitigation  | 91<br>91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57<br>127<br>17<br>90<br>10<br>95<br>99                               | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd.to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 mi. south, to Agua Fria River Approx. Elliot Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 ml. north North and East boundaries of Phoenix-Mesa Gateway Airport Area bounded by 4th St. (Avondale) / Lower Buckeye Rd. / MC-85   | 2001<br>2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015<br>1973<br>2021<br>1996<br>1989<br>1990<br>2007<br>2008<br>2008         |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain Elliot Rd. Basin and Channel Ellsworth Rd. Channel at Phoenix-Mesa Gateway Airport Elm Ln. Drainage Mitigation Gila / Salt River Clearing (Gillespie Dam to 91st Ave.)*   | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57<br>127<br>17<br>90<br>10<br>95<br>99                                     | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 ml. south, to Agua Fria River Approx. Elliot Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 ml. north North and East boundaries of Phoenix-Mesa Gateway Airport Area bounded by 4th St. (Avondale) / Lower Buckeye Rd. / MC-85 Gila / Salt River, Gillespie Dam to 107th Ave.   | 2001<br>2001<br>2001<br>2001<br>2005<br>2009<br>2011<br>1995<br>2004<br>2015<br>1973<br>2021<br>1996<br>2007<br>2007<br>2007                                 |
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| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain Elliot Rd. Basin and Channel Ellsworth Rd. Channel at Phoenix-Mesa Gateway Airport Elm Ln. Drainage Mitigation Gila / Salt River Clearing (Gillespie Dam to 91st Ave.)* Gila Drain Storm Drain Gilbert Crossroads Park Basin   | 91<br>91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>123<br>57<br>127<br>90<br>10<br>95<br>99<br>104<br>NA                              | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 mi. south, to Agua Fria River Approx. Elliot Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 mi. north North and East boundaries of Phoenix-Mesa Gateway Airport Area bounded by 4th St. (Avondale) / Lower Buckeye Rd. / MC-85 Gila / Salt River, Gillespie Dam to 107th Ave. Rural Rd., 1/2 mi. south of Guadalupe Rd. to 1/2 mi. south of Warner Rd. (Hanger Park) Greenfield Rd. and Ray Rd.   | 2001 2001 2001 2001 2001 2001 2001 2005 2009 2011 1995 2004 2015 1973 2021 1996 1989 1990 2007 2008 2010 1985 1988 1992                                      |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain Elliot Rd. Basin and Channel Ellsworth Rd. Channel at Phoenix-Mesa Gateway Airport Elm Ln. Drainage Mitigation Gila / Salt River Clearing (Gillespie Dam to 91st Ave.)* Gila Drain Storm Drain Gilbert Crossroads Park Basin Golden Eagle Park Dam  | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57<br>127<br>17<br>90<br>10<br>95<br>99<br>104<br>NA<br>73<br>94<br>80      | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 mi. south, to Agua Fria River Approx. Elliot Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 ml. north North and East boundaries of Phoenix-Mesa Gateway Airport Area bounded by 4th St. (Avondale) / Lower Buckeye Rd. / MC-85 Gila / Salt River, Gillespie Dam to 107th Ave. Rural Rd., 1/2 ml. south of Guadalupe Rd. to 1/2 ml. south of Warner Rd. (Hanger Park) Greenfield Rd. and Ray Rd. Golden Eagle Blvd. and Palisades Blvd.  | 2001 2001 2001 2001 2001 2001 2001 2005 2009 2011 1995 2004 2015 1973 2021 1990 2007 2008 2010 1985 1988 1992 2002   |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain Elliot Rd. Basin and Channel Ellsworth Rd. Channel at Phoenix-Mesa Gateway Airport Elm Ln. Drainage Mitigation Gila / Salt River Clearing (Gillespie Dam to 91st Ave.)* Gila Drain Storm Drain Gilbert Crossroads Park Basin Golden Eagle Park Dam Greenway Parkway Channel (9th St. to Cave Creek Rd.)  | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57<br>127<br>17<br>99<br>10<br>95<br>99<br>104<br>NA<br>73<br>94            | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 ml. south, to Agua Fria River Approx. Elliot Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 ml. north North and East boundaries of Phoenix-Mesa Gateway Airport Area bounded by 4th St. (Avondale) / Lower Buckeye Rd. / MC-85 Gila / Salt River, Gillespie Dam to 107th Ave. Rural Rd., 1/2 mi. south of Guadalupe Rd. to 1/2 mi. south of Warner Rd. (Hanger Park) Greenfield Rd. and Ray Rd. Golden Eagle Blvd. and Palisades Blvd. Greenway Parkway, 9th St. to Cave Creek Rd.  | 2001 2001 2001 2001 2001 2001 2001 2005 2009 2011 1995 2004 2015 1973 2021 1996 2007 2008 2010 1985 1988 1992 2002 2002                                      |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Downtwon Phoenix Drainage System Dramy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain Elliot Rd. Basin and Channel Ellsworth Rd. Channel at Phoenix-Mesa Gateway Airport Elm Ln. Drainage Mitigation Gila / Salt River Clearing (Gillespie Dam to 91st Ave.)* Gila Drain Storm Drain Gilbert Crossroads Park Dam Greenway Parkway Channel (9th St. to Cave Creek Rd.) Guadalupe Box and Channel | 91<br>91<br>91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>123<br>57<br>127<br>90<br>10<br>NA<br>NA<br>NA<br>94<br>80<br>44<br>44<br>45 | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 mi. south, to Agua Fria River Approx. Eliloit Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 mi. north North and East boundaries of Phoenix-Mesa Gateway Airport Area bounded by 4th St. (Avondale) / Lower Buckeye Rd. / MC-85 Gila / Salt River, Gillespie Dam to 107th Ave. Rural Rd., 1/2 mi. south of Guadalupe Rd. to 1/2 mi. south of Warner Rd. (Hanger Park) Greenfield Rd. and Ray Rd. Golden Eagle Blvd. and Palisades Blvd. Greenway Parkway, 9th St. to Cave Creek Rd. Guadalupe Rd., Sossaman Rd. to the EMF at Power Rd. | 2001 2001 2001 2001 2001 2001 2001 2001  |
| Central Arizona Project Detention Basin No. 1 Central Arizona Project Detention Basin No. 2 Central Arizona Project Detention Basin No. 3 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 Central Chandler Area Drainage System City of Phoenix Dam No. 7 Rehabilitation Cloud Road and Sossaman Road Basin and Outlet Colter Channel Doubletree Ranch Road System Downtwon Phoenix Drainage System Downtwon Phoenix Drainage System Dreamy Draw Dam Durango Regional Conveyance Channel Ph. 1 & 2 Dysart Drain East Maricopa Floodway El Mirage Drain Elliot Rd. Basin and Channel Ellsworth Rd. Channel at Phoenix-Mesa Gateway Airport Elm Ln. Drainage Mitigation Gila / Salt River Clearing (Gillespie Dam to 91st Ave.)* Gila Drain Storm Drain Gilbert Crossroads Park Basin Golden Eagle Park Dam Greenway Parkway Channel (9th St. to Cave Creek Rd.)  | 91<br>91<br>91<br>91<br>91<br>78<br>45<br>109<br>59<br>59<br>123<br>57<br>127<br>17<br>99<br>10<br>95<br>99<br>104<br>NA<br>73<br>94            | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment 93rd St. and University Dr. Approximately 96th St. and University Dr. Crismon Rd. and Apache Tr. Northeast corner of Cheshire St. and Southern Ave. Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E) Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr. SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E) SR-51 and Northern Ave. 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment. Between Olive Ave. and Glendale Ave., Reems Rd. to Agua Fria River Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 ml. south, to Agua Fria River Approx. Elliot Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 ml. north North and East boundaries of Phoenix-Mesa Gateway Airport Area bounded by 4th St. (Avondale) / Lower Buckeye Rd. / MC-85 Gila / Salt River, Gillespie Dam to 107th Ave. Rural Rd., 1/2 mi. south of Guadalupe Rd. to 1/2 mi. south of Warner Rd. (Hanger Park) Greenfield Rd. and Ray Rd. Golden Eagle Blvd. and Palisades Blvd. Greenway Parkway, 9th St. to Cave Creek Rd.  | 2001 2001 2001 2001 2001 2001 2001 2005 2009 2011 1995 2004 2015 1973 2021 1996 2007 2007 2008 2010 1985 1988 1992 2002 2002                                 |

| Project  | Map ID     | Location   | Year         |
|--|------------|--|--------------|
| Harquahala Floodway  | 6          | I-10, T2N/R9W, T3N/R9W, T3N/R10W   | 1982         |
| Harquahala FRS Harquahala FRS Erosion Mitigation   | 6          | I-10, T2N/R9W, T3N/R9W, T3N/R10W<br>I-10, T2N/R9W, T3N/R9W, T3N/R10W   | 1982<br>2021 |
| Hawes Rd. Channel (Emelita Ave. to Main St.)   | 89         | Hawes Rd., Apache Tr. (Main St.) To Emelita Ave. (1/2 mi. north of Southern Ave.)  | 2004         |
| Hermosa Vista Dr. / Hawes Rd. Storm Drain and Basin  | 82         | Area bounded by McDowell Rd. (N), Hermosa Vista Dr. (S), Spook Hill FRS (W), 90th St. (E)  | 2009         |
| Holly Acres Levee and Bank Stabilization<br>Indian Bend Wash   | 40<br>67   | Gila River North Bank, El Mirage Rd. to 113th Ave.  Between Hayden Rd. and Scottsdale Rd., Indian Bend Rd. to Salt River at SR-202L  | 1984<br>1985 |
| Indian School Rd. Drain (107th Ave. to Agua Fria)  | 39         | Indian School Rd., 107th Ave. to Agua Fria River   | 1989         |
| Lafayette Interceptor Drain & Outlet   | 117        | Lafayette Blvd. from Arcadia Dr.to 44th St., and north from Lafayette Blvd. to Colter St.  | 2014         |
| Laveen Area Conveyance Channel   | 114        | Area from 43rd Avenue to the Salt River between Southern Avenue and Baseline Road  | 2009         |
| Loop 303 Outfall Channel   | 121        | West of Cotton Ln., extending 4-1/2 miles from approx. Van Buren St. south to the Gila River SW corner of El Mirage Road and Cactus Road.                                      | 2015<br>2014 |
| Lower El Mirage Wash Basin<br>Maryvale Stadium West Inlet Channel  | 119<br>51  | Grand Canal, between Indian School Rd. and Osborn Rd., 57th Ave. to 51st Ave.  | 2014         |
| McDowell Rd. Storm Drain and Basin   | 81         | McDowell Rd., Hawes Rd. to Sossaman Rd. alignment  | 2010         |
| McMicken Dam   | 10         | Area bounded by Grand Ave. (N), Peoria Ave. (S), 165th Ave. (E), 199th Ave. (W)  | 1956         |
| McMicken Dam Outlet Channel  | 10<br>10   | Extends 5.5 mi. northeast of northeast end of McMicken Dam   | 1956         |
| McMicken Dam Outlet Channel Improvements Ph. 1  New River Channelization (Bethany Home Rd. to Skunk Creek)           | 26         | Extends 5.5 mi. northeast of northeast end of McMicken Dam  New River, Bethany Home Rd. to Olive Ave.  | 2020<br>1996 |
| New River Improvements (Grand Ave. to Skunk Creek)   | 26         | New River, Grand Ave. to Skunk Creek, including Paradise Shores (1/2 mile south of Bell Rd.)   | 2009         |
| New River Dam  | 20         | Alignment of 79th Ave. and approximately Pinnacle Vista Rd.  | 1985         |
| New River Dam Dike No. 1   | 20         | Lake Pleasant Rd. and Dixileta Dr. Alignment   | 1985         |
| Northern and Orangewood Storm Drain Northern Ave. Bridge over New River  | 36<br>26   | Between Butler Dr. and Glendale Ave., 63rd Ave. to Agua Fria River  Northern Ave. and New River  | 2001<br>1992 |
| Northern Ave. Storm Drain (47th Ave. to 63rd Ave.)   | 105        | Northern Ave., 47th Ave. to 63rd Ave.  | 2011         |
| Northern Parkway Channel   | 120        | North side of new Northern Parkway alignment from SR-303L to Dysart Rd.  | 2014         |
| Oak St. Storm Drain (58th St. to Indian Bend Wash)   | 69         | Oak Street, 58th St. to Indian Bend Wash   | 2000         |
| Old Cross Cut Canal Old Cross Cut Canal Extension  | 64<br>64   | 48th St., Arizona Canal to McDowell Rd.  Extension from the Arizona Canal to Indian School Rd.   | 1991<br>2011 |
| Olive Ave. Storm Drain (51st Ave. to 91st Ave.)  | 35         | Olive Ave., 51st Ave. to 91st Ave.   | 1995         |
| Osborn Rd. Storm Drain   | 68         | Between Osborn Rd. and Thomas Rd., 60th St. to Ind. Bend Wash at 76th St. and Earll Dr.  | 2001         |
| Paradise Valley Detention Basin No. 4  | 43         | Paradise Valley Community College (Component of Upper E. Fork Cave Creek)  | 1991         |
| Pass Mountain Diversion Channel Perryville Bank Stabilization  | 85<br>14   | McKellips Rd., Crismon Rd. to Signal Butte Rd., south to behind Signal Butte FRS  North bank of Gila River, between Perryville Rd. and Cotton Ln.                              | 1987<br>1984 |
| Pinnacle Peak Channel & Basin & Rose Garden Ln. Basin  | 110        | Pinnacle Peak Rd 89th to 99th Ave.; Rose Garden Ln. from Lake Pleasant Rd. to Agua Fria  | 2012         |
| Powerline Floodway   | 96         | Powerline FRS, southwest to Ray Rd. alignment at GM, to EMF at Sossaman Rd.  | 1968         |
| Powerline FRS  | 96         | US-60 and Guadalupe Rd. alignment  | 1967         |
| Price Road Drain Queen Creek Channel (Hawes to Power)  | 74<br>101  | SR-101L (Price), Salt River to 1/2 mi. south of Guadalupe Rd. (Carriage Lane Park)  Queen Creek, Hawes Rd. to Power Rd.  | 1993<br>2006 |
| Queen Creek Channel (Recker to Higley)   | 101        | Queen Creek, Recker Rd. to Higley Rd.  | 2009         |
| Queen Creek Road Basin   | 79         | McQueen Rd. and Queen Creek Rd.  | 2009         |
| Reems Road Channel and Basin   | 16         | Reems Rd. and Olive Ave.   | 2009         |
| Rittenhouse Basin<br>Rittenhouse FRS   | 100<br>98  | NW corner of Rittenhouse Rd. and Power Rd.  US-60, Queen Creek Rd. alignment   | 2010<br>1969 |
| Rittenhouse Road Channel   | 100        | Rittenhouse Rd., Queen Creek Rd. to the EMF at Pecos Rd.   | 1997         |
| Roosevelt Irrigation District Canal Overchute  | 27         | Litchfield Rd. and RID Canal   | 1998         |
| Saddleback Diversion Channel   | 5          | South of I-10, T2N/R8W, T1N/R8W  | 1981         |
| Saddleback FRS Salt River Channel (McClintock Dr. to Price Rd.)  | 5<br>66    | South of I-10, T2N/R8W, T1N/R8W  North bank of Salt River, McClintock Dr. to Price Rd.   | 1981<br>1998 |
| Salt River Channel (Price Rd. to McKellips Rd.)  | 66         | Salt River, Price Rd. to McKellips Rd.   | 1998         |
| Salt River Channel (SR-143 to McClintock Dr.)  | 66         | Salt River, SR-143 to McClintock Dr.   | 1991         |
| Salt River Low Flow Ch. (19th Ave. to I-10) (Phx. Rio Salado)  | 62         | Salt River, 19th Ave. to I-10 at approximately 30th St. alignment  | 2002         |
| Scatter Wash Channel and Basin at I-17 Scatter Wash Channel (43rd Ave. to 35th Ave.)                                 | 30<br>31   | Scatter Wash at I-17 Scatter Wash, 43rd Ave. to 35th Ave.  | 2010<br>1995 |
| Scottsdale Rd. Drainage (Thunderbird to Doubletree Ranch)  | 61         | Approximately Scottsdale Rd., Thunderbird Rd. to Doubletree Ranch Rd.  | 2008         |
| Signal Butte Floodway  | 84         | Between Mclellan Rd. and Adobe Rd., Signal Butte FRS to CAP at Ellsworth Rd.   | 1984         |
| Signal Butte FRS   | 84         | Southwest of Signal Butte Rd. and McKellips Rd.  | 1987         |
| Siphon Draw Drainage Improvements Skunk Creek / ACDC Low Flow Channel  | 106<br>23  | Meridian Rd., 1/4 mi. south of Baseline Rd. to Elliot Rd., basin east of Meridian Rd. Skunk Creek, New River to 75th Ave.; ACDC, 73rd Ave. to Skunk Creek                      | 2010<br>2007 |
| Skunk Creek / ACDC Low Flow Channel Skunk Creek Channel and Levee  | 22         | Skunk Creek, approximately Jomax Rd. alignment to Central Arizona Project  | 1983         |
| Skunk Creek Channel Imp. (75th Ave. to 51st Ave.)  | 22         | Skunk Creek, 75th Ave. to 51st Ave.  | 2000         |
| Skunk Creek Sports Complex Bank Protection   | 22         | Skunk Creek, New River to 75th Ave.  | 1999         |
| Sonoqui Wash Channelization (Higley to Chandler Heights) Sonoqui Wash Channelization (Chandler Heights to Ellsworth) | 102<br>113 | Sonoqui Wash, Higley Rd.and Ocotillo Rd. to Chandler Heights Rd. and Sossaman Rd.<br>Sonoqui Wash, Chandler Heights Rd. to Riggs Rd., and east from Hawes Rd. to Ellsworth Rd. | 2008<br>2013 |
| Sonoqui Wash Channelization (Chandler Heights to Elisworth)  Sonoqui Wash Main Branch                                | 113        | Sonoqui Wash, Empire Road at Ellsworth Rd, northwest to Riggs Road at Hawes Road   | 2013         |
| Sossaman Channel and Basin   | 92         | Sossaman Rd., Southern Ave. to Guadalupe Rd. (Basin at US-60)  | 1977         |
| Southeast Phoenix Regional Drainage System   | 76         | SR-202L and 48th St.   | 2002         |
| Southeast Valley Regional Drainage System Spook Hill FRS and Floodway  | 77<br>83   | SR-202L to Pecos Rd. 1/2 mi. west of Kyrene Rd., to I-10, south to the Gila Drain floodway SR-202L, Power Rd. to 1/4 mi. south of Brown Rd.; CAP, SR-202L, north 1 1/2 mi.     | 2002<br>1979 |
| Spook Hill FRS Rehabilitation  | 83         | SR-202L, Power Rd. to 1/4 ml. south of Brown Rd.; CAP, SR-202L, north 1 1/2 ml.  | 2008         |
| Sun City Drains  | 15         | Sun City, T4N/R1W  | 1990         |
| Sun City West Drains   | 15         | Sun City West, T3N/R1E   | 1990         |
| Sunnycove Dam<br>Sunset / Sunnycove Pipeline   | 3          | Kellis Rd. alignment and Turtleback Ln. alignment Sunnycove Dam, to a point 1 mi. northeast  | 1976<br>1976 |
| Sunset 7 Sunnycove Pipeline Sunset Dam   | 2          | South of US-60, between Cucuracha St. alignment and Whipple Ct. alignment  | 1976         |
| Tatum Wash Detention Basin   | 58         | 45th St. and Shea Blvd.  | 1998         |
| Tres Rios Levees   | 115        | North bank on the Salt & Gila Rivers from 91st Ave. to the Agua Fria River.  | 2011         |
| University Drive Basin   | 87<br>122  | 64th St. and University Dr.  Two chapped branches from 92nd and 96th streets from Shea Roulevard to Sweetwater Ave.  | 1992<br>2015 |
| Upper Camelback Wash Drainage Improvements Upper East Fork Cave Creek  | 43         | Two channel branches from 92nd and 96th streets from Shea Boulevard to Sweetwater Ave.  Area bounded by SR-101L (N), Bell Rd. (S), 9th St. (W), 32nd St. (E); 4 basins & PVCC  | 1996         |
| Vineyard FRS   | 97         | US-60 and Ray Rd. alignment  | 1968         |
| White Tanks FRS No. 3  | 12         | Jackrabbit Tr. alignment and Glendale Ave. alignment   | 1954         |
| White Tanks FRS No. 3 Rehab.   | 12         | Jackrabbit Tr. alignment and Glendale Ave. alignment   | 2011         |
| White Tanks FRS No. 3 North Inlet Channel White Tanks FRS No. 3 Outfall Channel                                      | 11<br>112  | Beardsley Canal, Olive Ave. to White Tanks FRS No. 3  Jackrabbit Trail (195th Avenue), from McDowell Road to Missouri Avenue.  | 2008         |
| White Tanks FRS No.4   | 13         | Jackrabbit Trail and Van Buren Street.   | 1954         |
| White Tanks FRS No. 4 Rehab.   | 13         | Jackrabbit Trail and Van Buren Street.   | 2019         |
| White Tanks FRS No. 4 Outlet   | 13         | FRS No. 4 dam to the Loop 303 Outfall Channel  | 2021         |
| Wickenburg Downtown Flooding Hazard Mitigation  *Initially cleared; conditions subsequently reversed.                | 116        | Sol's Wash, from the Highway 93 Interim Bypass Bridge to the Tegner St. Bridge   | 2009         |

Wickenburg Downtown Flooding Hazard Mitigation
\*Initially cleared; conditions subsequently reversed.

# Appendix B Previously Recommended Projects yet to be Implemented.

### Recommended by Prioritization Procedures Through Fiscal Year 2021

Cost Estimates Per Original Submittals

| 2000         Meridian North and South Channels         Mesa         \$1,800,000         \$2,400,000           2002         Sand Tank Wash Flood Control Improvements         Gila Bend         \$10,534,000         \$11,707,000           2002         South Gila Bend Drainage Improvements         Gila Bend         \$283,000         \$283,000           2007         Skunk Creek Levees at CAP         District         \$2,670,000         \$8,900,000           2007         Skunk Creek Channel at Pinnacle Peak Rd. and 35th Ave.         Phoenix         \$4,250,000         \$8,500,000           2008         Pecos North and South Detention Basins         Mesa         \$11,625,000         \$15,500,000           2009         20th Ave. and Turney Ave. Detention Basin         Phoenix         \$6,500,000         \$13,000,000           2010         Jefferson St. and I-17 Storm Drain         Phoenix         \$1,550,000         \$3,000,000           2011         SR-85/Oglesby Outfall Channel         ADOT/FCD         \$7,000,000         \$14,000,000           2012         Skyline Fan Basin & Outlet         Buckeye         \$12,740,000         \$45,500,000           2012         Rooks Drainage System         Buckeye         \$10,472,000         \$37,400,000           2012         Palo Verde Drainage System         Buckeye         \$26,236 | Year | Description  | Sponsor         | Est. District Cost | Est. Total Cost |
|---|------|--|-----------------|--------------------|-----------------|
| 2002         South Gila Bend Drainage Improvements         Gila Bend         \$283,000         \$283,000           2007         Skunk Creek Levees at CAP         District         \$2,670,000         \$8,900,000           2007         Skunk Creek Channel at Pinnacle Peak Rd. and 35th Ave.         Phoenix         \$4,250,000         \$8,500,000           2008         Pecos North and South Detention Basins         Mesa         \$11,625,000         \$15,500,000           2009         20th Ave. and Turney Ave. Detention Basin         Phoenix         \$6,500,000         \$13,000,000           2010         Jefferson St. and I-17 Storm Drain         Phoenix         \$1,550,000         \$3,100,000           2011         SR-85/Oglesby Outfall Channel         ADOT/FCD         \$7,000,000         \$14,000,000           2012         Skyline Fan Basin & Outlet         Buckeye         \$3,600,000         \$7,200,000           2012         Rooks Drainage System         Buckeye         \$10,472,000         \$37,400,000           2012         Palo Verde Drainage System         Buckeye         \$26,236,000         \$93,700,000           2019         Cheney Improvement Area         Paradise Valley         \$3,715,000         \$7,430,000  | 2000 | Meridian North and South Channels                      | Mesa            | \$1,800,000        | \$2,400,000     |
| 2007         Skunk Creek Levees at CAP         District         \$2,670,000         \$8,900,000           2007         Skunk Creek Channel at Pinnacle Peak Rd. and 35th Ave.         Phoenix         \$4,250,000         \$8,500,000           2008         Pecos North and South Detention Basins         Mesa         \$11,625,000         \$15,500,000           2009         20th Ave. and Turney Ave. Detention Basin         Phoenix         \$6,500,000         \$13,000,000           2010         Jefferson St. and I-17 Storm Drain         Phoenix         \$1,550,000         \$3,100,000           2011         SR-85/Oglesby Outfall Channel         ADOT/FCD         \$7,000,000         \$14,000,000           2012         Skyline Fan Basin & Outlet         Buckeye         \$3,600,000         \$7,200,000           2012         Rooks Drainage System         Buckeye         \$10,472,000         \$37,400,000           2012         Oglesby Channel         Buckeye         \$26,236,000         \$93,700,000           2012         Palo Verde Drainage System         Buckeye         \$26,236,000         \$93,700,000           2019         Cheney Improvement Area         Paradise Valley         \$3,715,000         \$7,430,000  | 2002 | Sand Tank Wash Flood Control Improvements              | Gila Bend       | \$10,534,000       | \$11,707,000    |
| 2007         Skunk Creek Channel at Pinnacle Peak Rd. and 35th Ave.         Phoenix         \$4,250,000         \$8,500,000           2008         Pecos North and South Detention Basins         Mesa         \$11,625,000         \$15,500,000           2009         20th Ave. and Turney Ave. Detention Basin         Phoenix         \$6,500,000         \$13,000,000           2010         Jefferson St. and I-17 Storm Drain         Phoenix         \$1,550,000         \$3,100,000           2011         SR-85/Oglesby Outfall Channel         ADOT/FCD         \$7,000,000         \$14,000,000           2012         Skyline Fan Basin & Outlet         Buckeye         \$3,600,000         \$7,200,000           2012         Rooks Drainage System         Buckeye         \$10,472,000         \$37,400,000           2012         Oglesby Channel         Buckeye         \$26,236,000         \$93,700,000           2012         Palo Verde Drainage System         Buckeye         \$26,236,000         \$93,700,000           2019         Cheney Improvement Area         Paradise Valley         \$3,715,000         \$7,430,000  | 2002 | South Gila Bend Drainage Improvements                  | Gila Bend       | \$283,000          | \$283,000       |
| 2008         Pecos North and South Detention Basins         Mesa         \$11,625,000         \$15,500,000           2009         20th Ave. and Turney Ave. Detention Basin         Phoenix         \$6,500,000         \$13,000,000           2010         Jefferson St. and I-17 Storm Drain         Phoenix         \$1,550,000         \$3,100,000           2011         SR-85/Oglesby Outfall Channel         ADOT/FCD         \$7,000,000         \$14,000,000           2012         Skyline Fan Basin & Outlet         Buckeye         \$3,600,000         \$7,200,000           2012         Rooks Drainage System         Buckeye         \$12,740,000         \$45,500,000           2012         Oglesby Channel         Buckeye         \$10,472,000         \$37,400,000           2012         Palo Verde Drainage System         Buckeye         \$26,236,000         \$93,700,000           2012         Cheney Improvement Area         Paradise Valley         \$3,715,000         \$7,430,000  | 2007 | Skunk Creek Levees at CAP                              | District        | \$2,670,000        | \$8,900,000     |
| 2009       20th Ave. and Turney Ave. Detention Basin       Phoenix       \$6,500,000       \$13,000,000         2010       Jefferson St. and I-17 Storm Drain       Phoenix       \$1,550,000       \$3,100,000         2011       SR-85/Oglesby Outfall Channel       ADOT/FCD       \$7,000,000       \$14,000,000         2012       Skyline Fan Basin & Outlet       Buckeye       \$3,600,000       \$7,200,000         2012       Rooks Drainage System       Buckeye       \$12,740,000       \$45,500,000         2012       Oglesby Channel       Buckeye       \$10,472,000       \$37,400,000         2012       Palo Verde Drainage System       Buckeye       \$26,236,000       \$93,700,000         2019       Cheney Improvement Area       Paradise Valley       \$3,715,000       \$7,430,000   | 2007 | Skunk Creek Channel at Pinnacle Peak Rd. and 35th Ave. | Phoenix         | \$4,250,000        | \$8,500,000     |
| 2010       Jefferson St. and I-17 Storm Drain       Phoenix       \$1,550,000       \$3,100,000         2011       SR-85/Oglesby Outfall Channel       ADOT/FCD       \$7,000,000       \$14,000,000         2012       Skyline Fan Basin & Outlet       Buckeye       \$3,600,000       \$7,200,000         2012       Rooks Drainage System       Buckeye       \$12,740,000       \$45,500,000         2012       Oglesby Channel       Buckeye       \$10,472,000       \$37,400,000         2012       Palo Verde Drainage System       Buckeye       \$26,236,000       \$93,700,000         2019       Cheney Improvement Area       Paradise Valley       \$3,715,000       \$7,430,000   | 2008 | Pecos North and South Detention Basins                 | Mesa            | \$11,625,000       | \$15,500,000    |
| 2011       SR-85/Oglesby Outfall Channel       ADOT/FCD       \$7,000,000       \$14,000,000         2012       Skyline Fan Basin & Outlet       Buckeye       \$3,600,000       \$7,200,000         2012       Rooks Drainage System       Buckeye       \$12,740,000       \$45,500,000         2012       Oglesby Channel       Buckeye       \$10,472,000       \$37,400,000         2012       Palo Verde Drainage System       Buckeye       \$26,236,000       \$93,700,000         2019       Cheney Improvement Area       Paradise Valley       \$3,715,000       \$7,430,000   | 2009 | 20th Ave. and Turney Ave. Detention Basin              | Phoenix         | \$6,500,000        | \$13,000,000    |
| 2012       Skyline Fan Basin & Outlet       Buckeye       \$3,600,000       \$7,200,000         2012       Rooks Drainage System       Buckeye       \$12,740,000       \$45,500,000         2012       Oglesby Channel       Buckeye       \$10,472,000       \$37,400,000         2012       Palo Verde Drainage System       Buckeye       \$26,236,000       \$93,700,000         2019       Cheney Improvement Area       Paradise Valley       \$3,715,000       \$7,430,000  | 2010 | Jefferson St. and I-17 Storm Drain                     | Phoenix         | \$1,550,000        | \$3,100,000     |
| 2012       Rooks Drainage System       Buckeye       \$12,740,000       \$45,500,000         2012       Oglesby Channel       Buckeye       \$10,472,000       \$37,400,000         2012       Palo Verde Drainage System       Buckeye       \$26,236,000       \$93,700,000         2019       Cheney Improvement Area       Paradise Valley       \$3,715,000       \$7,430,000  | 2011 | SR-85/Oglesby Outfall Channel                          | ADOT/FCD        | \$7,000,000        | \$14,000,000    |
| 2012       Oglesby Channel       Buckeye       \$10,472,000       \$37,400,000         2012       Palo Verde Drainage System       Buckeye       \$26,236,000       \$93,700,000         2019       Cheney Improvement Area       Paradise Valley       \$3,715,000       \$7,430,000   | 2012 | Skyline Fan Basin & Outlet                             | Buckeye         | \$3,600,000        | \$7,200,000     |
| 2012         Palo Verde Drainage System         Buckeye         \$26,236,000         \$93,700,000           2019         Cheney Improvement Area         Paradise Valley         \$3,715,000         \$7,430,000  | 2012 | Rooks Drainage System                                  | Buckeye         | \$12,740,000       | \$45,500,000    |
| 2019         Cheney Improvement Area         Paradise Valley         \$3,715,000         \$7,430,000  | 2012 | Oglesby Channel  | Buckeye         | \$10,472,000       | \$37,400,000    |
|   | 2012 | Palo Verde Drainage System                             | Buckeye         | \$26,236,000       | \$93,700,000    |
| 2021 Glenn Dr. Storm Drain - N. 59th -52nd Aves. Glendale \$2,100,000 \$5,250,000   | 2019 | Cheney Improvement Area                                | Paradise Valley | \$3,715,000        | \$7,430,000     |
|   | 2021 | Glenn Dr. Storm Drain - N. 59th -52nd Aves.            | Glendale        | \$2,100,000        | \$5,250,000     |

Total \$105,075,000 \$273,870,000

Total Count: 15

Note: Pinnacle Peak Road Drainage Improvements - 89th Ave. to Agua Fria River - removed at request of City of Peoria.

## **Appendix C** Flood Control District Capital Improvement Program **Projected Intergovernmental Agreement Revenue**

#### Fiscal Year 2022 - Fiscal Year 2026

| PCN       | Project   | FY 2022      | FY 2023      | FY 2024      | FY 2025      | FY 2026      | 5-Year       |
|-----------|---|--------------|--------------|--------------|--------------|--------------|--------------|
| 022.01.32 | Central Chandler Storm Drain improvements                     | \$0          | \$0          | \$0          | \$0          | \$0          | \$0          |
| 117.01.31 | Hidden Valley Basins & Storm Drain                            | \$0          | \$0          | \$1,100,000  | \$0          | \$0          | \$1,100,000  |
| 117.02.32 | 19th Avenue And Dobbins Road Drainage Basin and Storm Drain   | \$0          | \$2,800,000  | \$2,000,000  | \$0          | \$0          | \$4,800,000  |
| 117.04.31 | 51st Avenue and Dobbins Road Drainage Improvement Project     | \$1,050,000  | \$300,000    | \$3,550,000  | \$0          | \$0          | \$4,900,000  |
| 117.05.31 | 27th Ave. & Olney Avenue Storm Drain                          | \$0          | \$2,000,000  | \$0          | \$0          | \$0          | \$2,000,000  |
| 120.01.30 | Berneil Channel Modifications                                 | \$0          | \$0          | \$0          | \$0          | \$2,970,000  | \$2,970,000  |
| 122.01.30 | Rawhide Wash Drainage Improvements                            | \$1,686,000  | \$3,125,000  | \$0          | \$0          | \$0          | \$4,811,000  |
| 122.01.31 | Reata Wash Drainage Improvements                              | \$0          | \$0          | \$0          | \$0          | \$0          | \$0          |
| 122.02.31 | Paradise Ridge Channel  | \$0          | \$1,000,000  | \$7,000,000  | \$7,000,000  | \$0          | \$15,000,000 |
| 205.01.30 | Guadalupe Dam Mofifications                                   | \$0          | \$0          | \$0          | \$0          | \$1,430,000  | \$1,430,000  |
| 207.01.31 | Buckeye FRS No.1 Rehabilitation                               | \$7,000,000  | \$4,000,000  | \$0          | \$0          | \$0          | \$11,000,000 |
| 310.01.30 | Powerline Repl./Vineyard & Rittenhouse FRS Rehab              | \$0          | \$0          | \$13,092,950 | \$15,397,850 | \$9,750,000  | \$38,240,800 |
| 310.01.32 | Powerline Channel and FRS Decommissioning                     | \$0          | \$0          | \$0          | \$0          | \$0          | \$0          |
| 331.01.31 | Saddleback FRS Modifications                                  | \$0          | \$0          | \$0          | \$0          | \$0          | \$0          |
| 420.04.31 | Oak St. Detention Basin and Storm Drain                       | \$0          | \$0          | \$0          | \$0          | \$1,814,500  | \$1,814,500  |
| 442.XX.X2 | Pecos Road Drainage Improvements                              | \$0          | \$0          | \$1,700,000  | \$0          | \$0          | \$1,700,000  |
| 565.04.32 | Durango Regional Conveyance Channel (107th Ave. to Agua Fria) | \$0          | \$0          | \$0          | \$0          | \$0          | \$0          |
| 625.03.30 | Palm Lane and 30th Street                                     | \$0          | \$0          | \$0          | \$0          | \$0          | \$0          |
| 630.01.30 | Mandan Street Drainage Improvements                           | \$1,161,000  | \$0          | \$0          | \$0          | \$0          | \$1,161,000  |
| 640.XX.X1 | Circle K Park Detention Basin                                 | \$0          | \$0          | \$0          | \$0          | \$6,390,000  | \$6,390,000  |
|           | Projected Reimbursement Revenue Total                         | \$10,897,000 | \$13,225,000 | \$28,442,950 | \$22,397,850 | \$22,354,500 | \$97,317,300 |

## **Appendix D Completed Drainage Studies and Master Plans Through Fiscal Year 2021**

| Title   | Type*              | Year         |
|---|--------------------|--------------|
| Adobe Dam / Desert Hills  | ADMP               | 2003         |
| Agua Fria River   | WCMP               | 2001         |
| Aguila  | ADMP               | 2004         |
| Apache Wash   | DMP                | 1990         |
| Arizona Canal Diversion Channel                                 | ADMP               | 1995         |
| Ahwatukee Foothils Area   | ADMS               | 2017         |
| Buckeye   | ADMP               | 2009         |
| Buckeye / Sun Valley  | ADMS               | 2007         |
| Carefree  | DMP                | 2004         |
| Cave Creek  | DMP                | 2008         |
| Cudia City Wash   | ADMS               | 2020         |
| Durango   | ADMP               | 2002         |
| East Maricopa County  | ADMS               | 1987         |
| East Maricopa Floodway Capacity Mitigation                      | Study              | 2000         |
| East Mesa   | ADMP               | 1998         |
| East Mesa   | ADMPU ADMP (AVOMP) | 2014         |
| I Rio   | ADMP/WCMP          | 2006<br>1997 |
| ountain Hills   | ADMP               | 2003         |
| Sila Bend   | ADMP               |              |
| ila Bend<br>Sila Bend   | ADMPU<br>ADMSU     | 2015<br>2020 |
| illa Bend<br>iilbert-Chandler                                   | ADMS               | 1988         |
| illbert-Chandler<br>illbert-Chandler Update                     | ADMS               | 1988         |
| Glendale Update   | ADMP/SWMP          | 2011         |
| Glendale opdate<br>Glendale / Peoria                            | ADMP               | 1987         |
| Glendale / Peoria Update  | ADMP               | 2002         |
| Granite Reef Wash   | DMP                | 2002         |
| Higley  | ADMP               | 2002         |
| Hohokam   | ADMP               | 2014         |
| aveen   | ADMS               | 1994         |
| aveen / South Phoenix   | ADMP               | 2001         |
| aveen / South Phoenix   | ADMPU              | 2013         |
| oop 303 Corridor / White Tanks Update                           | ADMP               | 2002         |
| Lower Hassayampa  | WCMP               | 2007         |
| ower Indian Bend Wash   | ADMS/P             | 2018         |
| Maryvale  | ADMS               | 1997         |
| Metro Phoenix   | ADMP               | 2008         |
| Middle Indian Bend Wash   | ADMS               | 2020         |
| Middle New River  | WCMP               | 2001         |
| North Mesa Southtown - Area 2                                   | ADMS               | 2020         |
| North Peoria  | ADMP               | 2002         |
| Paradise Valley, Scottsdale, Phoenix                            | Study              | 1978         |
| Peoria  | ADMP               | 2014         |
| Pinnacle Peak South   | ADMS               | 2013         |
| Pinnacle Peak West  | ADMS/P             | 2018         |
| Queen Creek   | ADMS               | 1991         |
| Queen Creek / Sonoqui Wash                                      | HMP                | 2000         |
| Rainbow Valley  | ADMS/P             | 2011         |
| Rio Verde   | ADMP               | 2006         |
| Salt River (Dobson Rd. to 24th St.)                             | HMP                | 2010         |
| San Tan West  | ADMS               | 2013         |
| Scottsdale Road Corridor (Paradise Valley, Scottsdale, Phoenix) | DMP                | 2002         |
| Scottsdale, Tempe, Phoenix Skunk Creek                          | Study<br>WCMP      | 1997         |
| outheast Mesa   | ADMS               | 2001<br>1996 |
| pook Hill   | ADMP               | 2002         |
| spook Filli<br>Sun Valley                                       | ADMP               | 2002         |
| empe  | ADMS/P             | 2006         |
| Ipper Cave Creek / Apache Wash                                  | WCMP               | 2010         |
| Ipper Cave Creek / Apache Wash                                  | ADMP               | 2001         |
| Jpper New River   | ADMP               | 2018         |
| White Tanks / Agua Fria   | ADMS               | 1992         |
| Vickenburg  | ADMS               | 1992         |
| Vickenburg  | ADMP               | 2015         |
| Vittmann  | ADMP               | 2009         |
| Vittmann  | ADMS               | 1989         |
|   | ADMS               | 2019         |
| Voolsey/Gillespie ADMS Ph. II                                   | IADIVIS            |              |

\* Acronym list: ADMP: Area Drainage Master Plan ADMPU: Area Drainage Master Plan Update ADMS: Area Drainage Master Study DMP: Drainage Master Plan

HMP: Hydraulic Master Plan SWMP: Stormwater Master Plan WCMP: Watercourse Master Plan

# Completed Capital Projects Through Fiscal Year 2021 (By Map ID)

| Map ID   | Project   | Location  | Year         |
|----------|---|---|--------------|
| 1        | Casandro Wash Dam   | North of US-60, between Mariposa Dr. alignment and Los Altos Dr. alignment  | 1996         |
|          | Casandro Wash Outlet Sunset / Sunnycove Pipeline  | Jackson St., Navajo St. to Mohave St.; Mohave St., Jackson St. to Casandro Wash Sunnycove Dam, to a point 1 mi. northeast   | 1996<br>1976 |
|          | Sunset Dam  | South of US-60, between Cucuracha St. alignment and Whipple Ct. alignment   | 1976         |
|          | Sunnycove Dam   | Kellis Rd. alignment and Turtleback Ln. alignment   | 1976         |
| 4        | Centennial Levee<br>Saddleback Diversion Channel  | South of I-10, T2N/R9W, T2N/R10W  | 1985         |
|          | Saddleback FRS  | South of I-10, T2N/R8W, T1N/R8W South of I-10, T2N/R8W, T1N/R8W   | 1981<br>1981 |
| 6        | Harquahala Floodway   | I-10, T2N/R9W, T3N/R9W, T3N/R10W  | 1982         |
|          | Harquahala FRS  | I-10, T2N/R9W, T3N/R9W, T3N/R10W  | 1982         |
|          | Harquahala FRS Erosion Mitigation Buckeye FRS No. 1   | I-10, T2N/R9W, T3N/R9W, T3N/R10W<br>I-10, 331st Ave. to 257th Ave.  | 2021<br>1975 |
|          | Buckeye FRS No. 2   | I-10, 254th Ave. to 237th Ave.  | 1975         |
|          | Buckeye FRS No. 3   | I-10, 235th Ave. to 215th Ave.  | 1975         |
|          | El Mirage Drain<br>McMicken Dam   | El Mirage Rd., from Deer Valley Rd. to a point 1 1/4 mi. south, to Agua Fria River<br>Area bounded by Grand Ave. (N), Peoria Ave. (S), 165th Ave. (E), 199th Ave. (W) | 1990<br>1956 |
|          | McMicken Dam Outlet Channel   | Extends 5.5 mi. northeast of northeast end of McMicken Dam  | 1956         |
|          |   | Extends 5.5 mi. northeast of northeast end of McMicken Dam  | 2020         |
|          | White Tanks FRS No. 3 North Inlet Channel White Tanks FRS No. 3   | Beardsley Canal, Olive Ave. to White Tanks FRS No. 3  Jackrabbit Tr. alignment and Glendale Ave. alignment  | 2008<br>1954 |
|          | White Tanks FRS No. 3 Rehab.  | Jackrabbit Tr. alignment and Glendale Ave. alignment  Jackrabbit Tr. alignment and Glendale Ave. alignment  | 2011         |
| 13       | White Tanks FRS No. 4   | Jackrabbit Tr. and Van Buren St.  | 1954         |
|          | White Tanks FRS No.4 Outlet   | Jackrabbit Tr. and Van Buren St.  | 2021         |
|          | White Tanks FRS No. 4 Rehab. Perryville Bank Stabilization  | Jackrabbit Tr. and Van Buren St.  North bank of Gila River, between Perryville Rd. and Cotton Ln.   | 2019<br>1984 |
| 15       | Sun City Drains   | Sun City, T4N/R1W   | 1990         |
|          | Sun City West Drains  | Sun City West, T3N/R1E  | 1990         |
|          | Reems Road Channel and Basin  Dysart Drain  | Reems Rd. and Olive Ave.  Between Olive Ave. and Glendale Ave., Reems Rd.to Agua Fria River   | 2009<br>1996 |
|          | Colter Channel  | Between Camelback Rd. and Missouri Ave., Litchfield Rd. to Agua Fria River  | 1995         |
|          | ` '   | Bullard Wash, Lower Buckeye Rd. alignment to Gila River   | 2001         |
|          | New River Dam<br>New River Dam Dike No. 1   | Alignment of 79th Ave. and approximately Pinnacle Vista Rd.  Lake Pleasant Rd. and Dixileta Dr. Alignment   | 1985<br>1985 |
|          |   | Area bounded by Calley Lejos (N), Willisams Rd. (S), 91st Ave. (W), 83rd Ave. (E)   | 2008         |
|          | Skunk Creek Channel and Levee   | Skunk Creek, approximately Jomax Rd. alignment to Central Arizona Project   | 1983         |
|          | Skunk Creek Channel Imp. (75th Ave. to 51st Ave.) Skunk Creek Sports Complex Bank Protection                  | Skunk Creek, 75th Ave. to 51st Ave. Skunk Creek, New River to 75th Ave.   | 2000<br>1999 |
|          | Skunk Creek / ACDC Low Flow Channel   | Skunk Creek, New River to 75th Ave.; ACDC, 73rd Ave. to Skunk Creek   | 2007         |
|          |   | 51st Ave., Bell Rd. to Thunderbird Rd.  | 1991         |
|          | 59th Ave. Storm Drain (Bell Rd. to ACDC) 67th Ave. Storm Drain (Bell Rd. to ACDC)                             | 59th Ave., Bell Rd. to ACDC<br>67th Ave., Bell Rd. to ACDC  | 1991<br>1990 |
|          | 91st Ave. and Bell Rd. Drainage   | 91st Ave., Bell Rd. to Greenway Rd.; Greenway Rd., 91st Ave. to New River   | 1991         |
|          | 83rd Ave. Grade Control Structure (Skunk Creek)   | 83rd Ave. and Skunk Creek   | 2003         |
|          | New River Channelization (Bethany Home Rd. to Skunk Creek) New River Improvements (Grand Ave. to Skunk Creek) | New River, Bethany Home Rd. to Olive Ave.  New River, Grand Ave. to Skunk Creek, including Paradise Shores (1/2 mile south of Bell Rd.)                               | 1996<br>2009 |
|          | Northern Ave. Bridge over New River   | Northern Ave. and New River   | 1992         |
|          | Roosevelt Irrigation District Canal Overchute   | Litchfield Rd. and RID Canal  | 1998         |
|          | Agua Fria Channelization Avondale Landfill Excavation   | Agua Fria River, Camelback Rd. to 1/4 mi. south of Lower Buckeye Rd.  Dysart Rd. and Buckeye Rd.  | 1988<br>1986 |
| 28       | Camelback Ranch Levee   | Agua Fria River and Camelback Rd.   | 1999         |
|          | Adobe Dam   | Skunk Creek at Deer Valley Rd. alignment and 39th Ave. alignment  | 1982         |
|          | Scatter Wash Channel and Basin at I-17 Scatter Wash Channel (43rd Ave. to 35th Ave.)                          | Scatter Wash at I-17 Scatter Wash, 43rd Ave. to 35th Ave.   | 2010<br>1995 |
|          |   | Beardsley Rd., 7th Ave. to 23rd Ave.  | 1995         |
|          |   | Cactus Rd., 67th Ave. to Agua Fria Freeway (SR-101L)  | 1998         |
|          | 67th Ave. Storm Drain (Olive Ave. to ACDC) Olive Ave. Storm Drain (51st Ave. to 91st Ave.)                    | 67th Ave., Olive Ave. to ACDC Olive Ave., 51st Ave. to 91st Ave.  | 2009<br>1995 |
| 36       | Northern and Orangewood Storm Drain   | Between Butler Dr. and Glendale Ave., 63rd Ave. to Agua Fria River  | 2001         |
|          | Bethany Home Outfall Channel (Phase I)  | Bethany Home Rd., SR-101L to New River  | 2000         |
|          | Bethany Home Outfall Channel (Phases IIA, IIB and IIC) Indian School Rd. Drain (107th Ave. to Agua Fria)      | Bethany Home Rd., SR-101L to 83rd Ave.; Grand Canal, Bethany Home Rd. to 67th Ave. Indian School Rd., 107th Ave. to Agua Fria River                                   | 2008<br>1989 |
| 40       | Holly Acres Levee and Bank Stabilization  | Gila River North Bank, El Mirage Rd. to 113th Ave.  | 1984         |
| 41       | Cave Creek Dam  | 16th St. alignment and Jomax Rd. alignment  | 1923<br>1980 |
| 42       | Cave Buttes Dam<br>Cave Buttes Dam Dike No. 1   | 16th St. alignment and Happy Valley Rd. alignment  18th St. alignment and Happy Valley Rd. alignment  | 1980         |
| 42       | Cave Buttes Dam Dike No. 2  | 32nd St. alignment, 1/2 mi. north of Happy Valley Rd. alignment   | 1980         |
|          | Cave Buttes Dam Dike No. 3  | 9th St. alignment and Dixileta Dr. alignment  Paradiso Valloy Community College (Component of Upper F. Fork Cayo Creek)   | 1980<br>1991 |
|          | Paradise Valley Detention Basin No. 4 Upper East Fork Cave Creek  | Paradise Valley Community College (Component of Upper E. Fork Cave Creek)  Area bounded by SR-101L (N), Bell Rd. (S), 9th St. (W), 32nd St. (E); 4 basins & PVCC      | 1991         |
| 44       | Greenway Parkway Channel (9th St. to Cave Creek Rd.)  | Greenway Parkway, 9th St. to Cave Creek Rd.   | 2002         |
|          | City of Phoenix Dam No. 7 Rehabilitation  Cave Creek Channelization   | Phoenix North Mountain Preserve, approximately 2nd St. and Aster Dr.  Deer Valley Rd. to Arizona Canal  | 2009<br>1991 |
|          | Arizona Canal Diversion Channel   | Arizona Canal, 37th Street to New River   | 1991         |
| 48       | 9th Ave. Storm Drain (Peoria Ave. to ACDC)  | 9th Ave., Peoria Ave. to ACDC   | 2008         |
|          | 10th St. Wash Detention Basin No. 1<br>10th St. Wash Detention Basin No. 2                                    | 12th St. and Peoria Ave.  11th St. and Alice Ave.   | 1996<br>1997 |
|          | 10th St. Wash Improvements (Alice to ACDC)  | 10th St., Alice Ave to ACDC at Griswold Rd. alignment   | 2008         |
| 51       | Maryvale Stadium West Inlet Channel   | Grand Canal, between Indian School Rd. and Osborn Rd., 57th Ave. to 51st Ave.   | 2001         |
|          | 26th Ave. and Verde Ln. Basin<br>24th Ave. and Camelback Rd. Basin  | Verde Ln. alignment; 26th Dr. to I-17 Frontage Rd.  24th Ave. and Camelback Rd.   | 2007<br>2008 |
| -        | 43rd Ave. and Southern Ave. Detention Basin   | 43rd Ave. and Southern Ave.   | 2005         |
| 54       | 43rd Ave. Storm Drain   | 43rd Ave., Broadway Rd. to Baseline Rd.   | 2000         |
|          | Baseline Rd. Storm Drain<br>35th Ave. and Dobbins Rd. Basin and Storm Drain                                   | Baseline Rd., 7th Ave. to 43rd Ave.  35th Ave. and Dobbins Rd.  | 2002<br>2002 |
|          |   |   | 1973         |
| 57<br>58 | Dreamy Draw Dam<br>Tatum Wash Detention Basin   | SR-51 and Northern Ave. 45th St. and Shea Blvd.   | 1998         |

| Map ID     | Project   | Location  | Year         |
|------------|---|---|--------------|
| 59<br>60   | Doubletree Ranch Road System Cactus Rd. Flood Control System                                | Doubletree Ranch Rd., Tatum Blvd to Indian Bend Wash at 58th St. alignment  Cactus Rd., Scottsdale Rd. to 64th St.; 68th St., Cactus Rd. to Mescal Park             | 2004<br>1991 |
| 61         | Scottsdale Rd. Drainage (Thunderbird to Doubletree Ranch)                                   | Approximately Scottsdale Rd., Thunderbird Rd. to Doubletree Ranch Rd.   | 2008         |
| 62         | Salt River Low Flow Ch. (19th Ave. to I-10) (Phx. Rio Salado)                               | Salt River, 19th Ave. to I-10 at approximately 30th St. alignment   | 2002         |
| 63         | 48th St. Drain  | San Francisco Canal, 48th St. to University Dr.   | 1981         |
| 64         | Old Cross Cut Canal   | 48th St., Arizona Canal to McDowell Rd.   | 1991         |
|            | Old Cross Cut Canal Extension   | Extension from the Arizona Canal to Indian School Rd.   | 2011         |
| 65<br>66   | 48th St. Storm Drain Salt River Channel (McClintock Dr. to Price Rd.)                       | 48th St., Baseline Rd. to 48th St. Drain  North bank of Salt River, McClintock Dr. to Price Rd.   | 1988<br>1998 |
| 66         | Salt River Channel (Price Rd. to McKellips Rd.)   | Salt River, Price Rd. to McKellips Rd.  | 1998         |
| 66         | Salt River Channel (SR-143 to McClintock Dr.)   | Salt River, SR-143 to McClintock Dr.  | 1991         |
| 67         | Camelback Side Drain Extension  | Camelback Rd., 64th St. to 68th St; Lafayette Blvd., 64th St. to 68th St.   | 1986         |
| 67         | Indian Bend Wash  | Between Hayden Rd. and Scottsdale Rd., Indian Bend Rd. to Salt River at SR-202L   | 1985         |
|            | Osborn Rd. Storm Drain  | Between Osborn Rd. and Thomas Rd., 60th St. to Ind. Bend Wash at 76th St. and Earll Dr.   | 2001         |
|            | Oak St. Storm Drain (58th St. to Indian Bend Wash)  | Oak Street, 58th St. to Indian Bend Wash  | 2000         |
|            | Guadalupe Drainage Improvement Project  | Town of Guadalupe (Various Basins)  | 2003         |
| 71<br>72   | Guadalupe FRS ADOT Pit and Diversion Channel  | West side of I-10, between Guadalupe Rd. and Baseline Rd.  I-10, Elliot Rd. to 1/4 mi. south of Warner Rd.; I-10 and 1/4 mi. south of Warner Rd.                    | 1975<br>1987 |
|            | Gila Drain Storm Drain  | Rural Rd., 1/2 mi. south of Guadalupe Rd. to 1/2 mi. south of Warner Rd. (Hanger Park)  | 1988         |
|            | Price Road Drain  | SR-101L (Price), Salt River to 1/2 mi. south of Guadalupe Rd. (Carriage Lane Park)  | 1993         |
|            | Alma School Drain   | Mclellan Rd. alignment, Tempe Canal at Alma School Rd. to the Salt River  | 1969         |
| 76         | Southeast Phoenix Regional Drainage System  | SR-202L and 48th St.  | 2002         |
| 77         | Southeast Valley Regional Drainage System   | SR-202L to Pecos Rd. 1/2 mi. west of Kyrene Rd., to I-10, south to the Gila Drain floodway  |              |
| 78         | Central Chandler Area Drainage System   | Area bounded by Ray Rd. (N), Pecos Rd. (S), SR-101L (W), Arizona Ave. (E)   | 2002         |
| 79         | Queen Creek Road Basin  | McQueen Rd. and Queen Creek Rd.   | 2005         |
|            | Golden Eagle Park Dam<br>McDowell Rd. Storm Drain and Basin                                 | Golden Eagle Blvd. and Palisades Blvd.  McDowell Rd., Hawes Rd. to Sossaman Rd. alignment   | 2009<br>2002 |
|            | Hermosa Vista Dr. / Hawes Rd. Storm Drain and Basin   | Area bounded by McDowell Rd. (N), Hermosa Vista Dr. (S), Spook Hill FRS (W), 90th St. (E)   | 2002         |
| 83         | Spook Hill FRS and Floodway   | SR-202L, Power Rd. to 1/4 mi. south of Brown Rd.; CAP, SR-202L, north 1 1/2 mi.   | 2010         |
| 83         | Spook Hill FRS Rehabilitation   | SR-202L, Power Rd. to 1/4 mi. south of Brown Rd.; CAP, SR-202L, north 1 1/2 mi.   | 1979         |
| 84         | Bulldog Floodway  | Apache Junction FRS to Signal Butte FRS   | 2008         |
| 84         | Signal Butte Floodway   | Between Mclellan Rd. and Adobe Rd., Signal Butte FRS to CAP at Ellsworth Rd.  | 1988         |
|            | Signal Butte FRS  | Southwest of Signal Butte Rd. and McKellips Rd.   | 1984         |
| 85         | Pass Mountain Diversion Channel   | McKellips Rd., Crismon Rd. to Signal Butte Rd., south to behind Signal Butte FRS  | 1987         |
| 86<br>87   | Apache Junction FRS and Floodway University Drive Basin                                     | Lost Dutchman Blvd. and Idaho Rd.  64th St. and University Dr.  | 1987<br>1988 |
|            | Broadway Rd. Collector Channel (Broadway Rd. to EMF)  | Approximately 1/2 mi. east of Higley Rd., Broadway Rd south for 1/3 mi. to EMF  | 1900         |
| 89         | Hawes Rd. Channel (Emelita Ave. to Main St.)  | Hawes Rd., Apache Tr. (Main St.) To Emelita Ave. (1/2 mi. north of Southern Ave.)   | 1998         |
| 90         | Adobe St. Structures over EMF   | Adobe St. 1/2 mi. east of Greenfield Rd.  | 2004         |
| 90         | East Maricopa Floodway  | Between Val Vista Dr. and Sossaman Rd., Brown Rd. to GRIC to the Gila River   | 1990         |
| 91         | Central Arizona Project Detention Basin No. 1   | Approximately Sossaman Rd. alignment and approximately Mclellan Rd. alignment   | 1989         |
| 91         | Central Arizona Project Detention Basin No. 2   | 93rd St. and University Dr.   | 2001         |
| 91         | Central Arizona Project Detention Basin No. 3   | Approximately 96th St. and University Dr.   | 2001         |
| 91<br>91   | Central Arizona Project Detention Basin No. 4 Central Arizona Project Detention Basin No. 5 | Crismon Rd. and Apache Tr.  Northeast corner of Cheshire St. and Southern Ave.  | 2001<br>2001 |
| 92         | Sossaman Channel and Basin  | Sossaman Rd., Southern Ave. to Guadalupe Rd. (Basin at US-60)   | 2001         |
| 93         | Guadalupe Box and Channel   | Guadalupe Rd., Sossaman Rd. to the EMF at Power Rd.   | 1977         |
| 94         | Gilbert Crossroads Park Basin   | Greenfield Rd. and Ray Rd.  | 1989         |
| 95         | Elliot Rd. Basin and Channel  | Approx. Elliot Rd., approx. Signal Butte Rd. to SR-202L; Crismon Rd. 0.5 mi. north  | 1992         |
| 96         | Powerline Floodway  | Powerline FRS, southwest to Ray Rd. alignment at GM, to EMF at Sossaman Rd.   | 2007         |
|            | Powerline FRS   | US-60 and Guadalupe Rd. alignment   | 1968         |
|            | Vineyard FRS  | US-60 and Ray Rd. alignment   | 1967         |
| 98<br>99   | Rittenhouse FRS Ellsworth Rd. Channel at Phoenix-Mesa Gateway Airport                       | US-60, Queen Creek Rd. alignment  North and East boundaries of Phoenix-Mesa Gateway Airport   | 1968<br>1969 |
| 100        | Rittenhouse Road Channel  | Rittenhouse Rd., Queen Creek Rd. to the EMF at Pecos Rd.  | 2008         |
| 100        | Rittenhouse Basin   | NW corner of Rittenhouse Rd. and Power Rd.  | 1997         |
|            | Queen Creek Channel (Hawes to Power)  | Queen Creek, Hawes Rd. to Power Rd.   | 2010         |
|            | Queen Creek Channel (Recker to Higley)  | Queen Creek, Recker Rd. to Higley Rd.   | 2006         |
| 102        | Sonoqui Wash Channelization (Higley to Chandler Heights)                                    | Sonoqui Wash, Higley Rd.and Ocotillo Rd. to Chandler Heights Rd. and Sossaman Rd.   | 2009         |
|            | Carefree Town Center Drainage   | Area bounded by Sundance Tr. / Tom Darl. Dr. (NW), Bloody Bas. Rd. / Tranquil Tr. (SE)  | 2008         |
|            | Elm Ln. Drainage Mitigation   | Area bounded by 4th St. (Avondale) / Lower Buckeye Rd. / MC-85  | 2002         |
| 105<br>106 | Northern Ave. Storm Drain (47th Ave. to 63rd Ave.) Siphon Draw Drainage Improvements        | Northern Ave., 47th Ave. to 63rd Ave.  Meridian Rd., 1/4 mi. south of Baseline Rd. to Elliot Rd., basin east of Meridian Rd.  | 2010<br>2011 |
| 106        | Camelback Road Storm Drain (59th Ave. to 75th Ave.)   | West Camelback Road from 59th Ave. to 75th Ave.   | 2011         |
| 108        | 23rd Ave. and Roser Road Storm Drain and Basin  | NE corner of 23rd Ave. and Roeser Rd.; outlets along Roeser Rd. and Broadway Rd.  | 2012         |
|            | Cloud Road and Sossaman Road Basin and Outlet   | SE corner of Cloud Rd. and Sossamna Rd.; outlets along Sossman Rd. to Sonoqui Wash  | 2011         |
|            | Pinnacle Peak Channel & Basin & Rose Garden Ln. Basin                                       | Pinnacle Peak Rd 89th to 99th Ave.; Rose Garden Ln. from Lake Pleasant Rd. to Agua Fria   | 2011         |
|            | 75th Ave. Storm Drain and DRCC Phase I  | Area bounded by 64th Ave. and 71st Ave. from south of Van Buren Ave. to Southern Ave.   | 2012         |
|            | White Tanks FRS No. 3 Outfall Channel   | Jackrabbit Trail (195th Avenue), from McDowell Road to Missouri Avenue.   | 2011         |
| 113        | Sonoqui Wash Channelization (Chandler Heights to Ellsworth)                                 | Sonoqui Wash, Chandler Heights Rd. to Riggs Rd., and east from Hawes Rd. to Ellsworth Rd.   | 2013         |
| 113<br>114 | Sonoqui Wash Main Branch<br>Laveen Area Conveyance Channel                                  | Sonoqui Wash, Empire Road at Ellsworth Rd, northwest to Riggs Road at Hawes Road  Area from 43rd Avenue to the Salt River between Southern Avenue and Baseline Road | 2013<br>2017 |
| 115        | Tres Rios Levees  | North bank on the Salt & Gila Rivers from 91st Ave. to the Agua Fria River.   | 2017         |
| 116        | Wickenburg Downtown Flooding Hazard Mitigation  | Sol's Wash, from the Highway 93 Interim Bypass Bridge to the Tegner St. Bridge  | 2009         |
|            | Lafayette Interceptor Drain & Outlet  | Lafayette Blvd. from Arcadia Dr.to 44th St., and north from Lafayette Blvd. to Colter St. □   | 2014         |
| 118        | 43rd Avenue & Baseline Road Detention Basin   | NE corner of 43rd Ave. and Baseline Road  | 2014         |
| 119        | Lower El Mirage Wash Basin  | SW corner of El Mirage Road and Cactus Road.  | 2014         |
| 120        | Northern Parkway Channel (SR-L303 to Dysart Road)   | North side of new Northern Parkway Alignment from Loop 101 Freeway to Dysart Road   | 2014         |
| 121        | Loop 303 Outfall Channel  | West of Cotton Ln., extending 4-1/2 miles from approx. Van Buren St. south to the Gila River  | 2015         |
|            | Upper Camelback Wash Drainage Improvements  | Two channel branches from 92nd and 96th streets from Shea Boulevard to Sweetwater Ave.  | 2015         |
|            | Downtown Phoenix Storm Drain System Ashbrook Wash Channelization Improvements               | Area bounded by Fillmore St. (N), Buckeye Rd. (S), 19th Ave. (W), & Central Ave. (E)  Ashbrook Wash between Bayfield Drive and Del Cambre Avenue                    | 2015<br>2017 |
| 124        | 27th Ave. and South Mountain Ave. Basin & Storm Drain                                       | 27th Ave. and South Mountain Ave.   | 2017         |
| 126        | 115th Avenue/Union Hills Drive Drainage Improvements  | 115th Ave. & Union Hills Dr.  | 2017         |
|            | Durango Regional Conveyance Channel Ph. 1 & 2   | 75th Avenue and 107th Avenue, one-half mile north of the Broadway Road alignment.   | 2019         |
| NA         | Gila / Salt River Clearing (Gillespie Dam to 91st Ave.)*                                    | Gila / Salt River, Gillespie Dam to 107th Ave.  | 2020         |
|            |   |   |              |

NA Gila / Salt River Clearing (Gillespie Dam to 91st Ave.)\*

\*Initially cleared; conditions subsequently reversed.

